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SEPTEMBER 1982 NUMBER 457 -- Part II

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Solar-Geophysical Data comprehensive reports

Data for March 1982, May 1980 & Miscellanea

Explanation of Data Reports Issued as Number 450 (Supplement) February 1982

LATE DATA	Pages 117-126
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Part II (Comprehensive Reports)

NO 457 SEPTEMBER 1982

DATA FOR
MARCH 1982
MAY 1980

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SOLAR-GEOPHYSICAL DATA

No. 457

Issued in two parts

Helen E. Coffey, Editor

Joe H. Allen, Chief
Solar-Terrestrial Physics Division

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"446A 40" listed under 1981 Aug means that the sunspot drawings for Aug 1981 were contained in Solar-Geophysical Data Number 446 - Part I, beginning on page 40.

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------ = no data available.
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SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1982

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	208	VORO	44	NS	0000.0E		180.0D		5.0		
	200	GORK	44	NS	0502.0E		419.0D		20.0		
	100	GORK	44	NS	0502.0E		418.0D		20.0		
	204	IZMI	43	NS	0600.0		360.0D	20.0			
	127	TORN	44	NS	0700.0E	1037.2	480.0D	1000.0	129.0		VO
	536	ONDR	44	NS	0758.0E		47.0D				
	260	ONDR	44	NS	0758.0E	1410.0U	652.0D				
	536	ONDR	43	NS	1115.0		343.0D				
	245	SGMR	43	NS	1141.0	1355.5	630.0D	189.0			QL=6 ST=2 TYP=1
	410	PALE	43	NS	1735.0	2124.3	630.0D	22.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1735.0	2135.0	630.0D	92.0			QL=6 ST=2 TYP=1
	100	HIRA	44	NS	2107.0E	2239.0	680.0D	430.0	85.0		SL
	200	HIRA	44	NS	2107.0E	2239.0	680.0D	115.0	35.0		ML
	245	LEAR	43	NS	2237.0	0725.8	718.0D	270.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.0D		55.0		
	245	PALE	49	GB	0007.0	0007.6	1.0	520.0			QL=6 ST=2 TYP=6
	410	PALE	47	GB	0007.0	0007.6	1.0	200.0			QL=6 ST=2 TYP=5
	3750	TYKW	5	S	0007.0	0007.6	1.5	3.0	1.0		
	610	PALE	8	S	0007.0	0008.0	1.0	22.0			QL=6 ST=2 TYP=3
	2695	PENT	1	S	0007.2	0007.5	1.0	6.8			
	245	LEAR	49	GB	0007.3	0007.6	1.0	640.0			QL=6 ST=2 TYP=6
	410	LEAR	47	GB	0007.3	0007.6	246.4	100.0			QL=6 ST=2 TYP=5
	610	LEAR	8	S	0007.3	0008.1	1.0	26.0			QL=6 ST=2 TYP=3
	1000	TYKW	5	S	0007.5	0007.7	1.5	26.0	4.0		
	2000	TYKW	5	S	0008.0E	0008.0U	1.0D	4.0D	1.5D		
	9400	TYKW	5	S	0015.0	0015.6	3.0	6.0	1.5		
	3750	TYKW	5	S	0031.0	0034.0	15.0	3.0	1.5		
	9400	TYKW	5	S	0113.0	0113.1	1.5	12.0	2.0		
	1000	TYKW	5	S	0119.0	0119.3	.5	22.0	6.0		
	2000	TYKW	21	GRF	0150.0	0250.0	140.0	3.0	1.5		
	3750	TYKW	21	GRF	0155.0	0251.0	135.0	5.0	2.5		
	1000	TYKW	21	GRF	0225.0	0250.0	70.0	3.0	1.5		
	2930	VORO	3	S	0237.0	0239.0	6.0	107.0			
	1000	TYKW	5	S	0237.0	0239.3	6.0	30.0	7.0		
	2695	PALE	47	GB	0238.5	0239.1	3.0	90.0			QL=6 ST=2 TYP=5
	1415	PALE	47	GB	0238.5	0239.1	3.0	60.0			QL=6 ST=2 TYP=5
	610	PALE	49	GB	0238.5	0239.1	3.0	710.0			QL=6 ST=2 TYP=6
	4995	PALE	47	GB	0238.5	0239.1	3.0	60.0			QL=6 ST=2 TYP=5
	8800	PALE	4	S/F	0238.5	0239.1	3.0	30.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0238.5	0239.2	5.0	32.0	4.0		
	3750	TYKW	5	S	0238.5	0239.2	6.0	80.0	12.0		
	2000	TYKW	45	C	0238.5	0239.3	3.5	97.0	24.0		
	2840	PEKG	5	S	0238.5	0239.4	6.5	94.0	9.4		
	2695	LEAR	47	GB	0238.6	0239.1	2.0	110.0			QL=6 ST=2 TYP=5
	4995	LEAR	47	GB	0238.6	0239.1	1.0	78.0			QL=6 ST=2 TYP=5
	610	LEAR	49	GB	0238.6	0239.1	1.0	600.0			QL=6 ST=2 TYP=6
	8800	LEAR	8	S	0238.8	0239.1	1.0	48.0			QL=6 ST=2 TYP=3
	1415	LEAR	47	GB	0238.8	0239.3	2.0	54.0			QL=6 ST=2 TYP=5
	606	MANI	4	S/F	0238.9	0239.4	1.9	150.2	50.0		
	1415	MANI	3	S	0238.9	0239.5	3.1	35.2	11.7		
	2695	MANI	3	S	0238.9	0239.5	3.1	105.3	35.1		
	4995	MANI	3	S	0238.9	0239.5	2.6	88.9	29.6		
	9395	PEKG	1	S	0239.0	0239.2	7.0	28.2	2.7		
	8800	MANI	3	S	0239.0	0239.5	1.2	35.7	11.9		
	15400	LEAR	4	S/F	0239.5	0240.0	10.0	11.0			QL=6 ST=2 TYP=3
	2000	TYKW	29	PBI	0242.0		7.0	3.0	1.5		
	1000	TYKW	29	PBI	0243.0		6.0	2.0	1.0		
	9395	PEKG	1	S	0246.0	0248.3	12.0	7.9	1.2		
	9400	TYKW	21	GRF	0248.0	0248.0	80.0	5.0	2.0		
	1000	TYKW	5	S	0258.6	0259.0	1.0	8.0	1.5		
	3750	TYKW	21	GRF	0424.0	0537.0	180.0	8.0	3.0		
	2000	TYKW	21	GRF	0430.0	0540.0	160.0	5.0	3.0		
	9400	TYKW	21	GRF	0437.0	0534.0	130.0	6.0	3.0		
	3750	TYKW	45	C	0443.0	0446.9	15.0	6.0	2.0		
	2000	TYKW	45	C	0443.0	0447.1	10.0	7.0	1.5		
	1000	TYKW	45	C	0444.0	0446.2	6.0	10.0	2.0		
	610	LEAR	8	S	0446.5	0446.6	1.0	22.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0446.5	0446.6	1.0	13.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0446.6	0447.0	1.0	30.0			QL=6 ST=2 TYP=3
	4995	LEAR	20	GRF	0535.6	0535.8	5.0	10.0			QL=6 ST=2 TYP=2

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
01	9400	TYKW	5	S	0536.5	0537.0	1.5	4.0	1.5		
	8800	LEAR	8	S	0536.6	0536.8	1.0	11.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0627.6	0627.8	1.0	6.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0627.6	0627.8	1.0	23.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0627.6	0627.8	1.0	24.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0630.8	0631.1	2.0	13.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0635.8	0636.0	1.0	16.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0635.8	0636.1	2.0	8.0			QL=6 ST=2 TYP=3
	245	LEAR	4	S/F	0703.8	0704.1	5.0	30.0			QL=6 ST=2 TYP=3
	930	BORD	46	C	0753.3	0753.4	.4	29.0	2.0		
	200	GORK	41	F	0810.3	0810.5	4.4	190.0			
	200	GORK			0810.3	0813.6		190.0D			
	2950	GORK	1	S	0828.2	0830.3	4.3	5.3			
	200	GORK	41	F	0829.0	0830.9	8.8	190.0D			
	200	GORK			0829.0	0834.3		100.0			
	2695	LEAR	8	S	0830.3	0830.3	1.0	11.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0830.3	0830.3	1.0	100.0			QL=6 ST=2 TYP=3
	430	KRAK	42	SER	0917.8	0923.4	12.8	650.0			
	3100	CRIM	1	S	0922.8	0923.2	2.0	11.0	4.0		
	2950	GORK	1	S	0923.0	0923.6	1.3	12.8	6.0		
	410	LEAR	47	GB	0923.3	0923.3	1.0	360.0			QL=6 ST=2 TYP=5
	245	LEAR	47	GB	0923.3	0923.5	1.0	400.0			QL=6 ST=2 TYP=5
	234	POTS	4	S/F	0923.4	0923.5	.2	100.0	25.0		
	204	IZMI	5	S	0923.5	0923.6	.5	150.0	100.0		
	2695	LEAR	8	S	0923.6	0923.6	1.0	13.0			QL=6 ST=2 TYP=3
	2650	IZMI	1	S	0924.0	0924.0	1.0	20.0	10.0		
	200	GORK	41	F	0927.6	0929.4	6.2	160.0			
	200	GORK			0927.6	0932.7		160.0D			
	9100	GORK	22	GRF	1029.3	1041.0	14.8	5.0			
	650	GORK	1	S	1037.5	1038.0	6.9	2.0			
	3100	CRIM	41	F	1038.0	1038.5	2.0	8.0	3.0		
	3100	CRIM			1038.0	1040.8		10.0			
	3100	CRIM			1038.0	1042.8		6.0			
	100	GORK	46	C	1039.8	1040.5	2.2	3400.0D			
	200	GORK	4	S/F	1039.8	1040.8	2.1	150.0D			
	100	GORK			1039.8	1040.9		3400.0D			
	2650	DWIN	1	S	1040.0	1040.0	1.0	17.0	8.0		
	204	IZMI	4	S/F	1040.0	1041.2	1.5	180.0	150.0		
	33	UPIC	45	C	1040.1	1040.4	2.1				
	113	POTS	4	S/F	1040.1	1040.6	2.8	350.0	50.0		III/V
	29	UPIC	45	C	1040.2	1040.8	2.2				
	2950	GORK	1	S	1040.3	1040.9	1.3	9.7			
	6100	KISV	1	S	1040.3	1041.0	1.5	4.0			
	950	GORK	1	S	1040.5	1040.8	6.0	4.0	2.0		
	3100	CRIM	40	F	1045.0	1045.5	6.0	8.0	3.0		
	200	GORK	46	C	1056.3	1058.4	17.9	110.0			
	200	GORK			1056.3	1103.5		130.0			
	430	KRAK	8	S	1116.3	1116.5	.4	54.0			
	430	KRAK	4	S/F	1119.8	1121.6	7.9	24.0	6.0		
	430	KRAK	8	S	1134.0	1134.1	.2	12.0			
	430	KRAK	8	S	1206.7	1206.8	.4	24.0			
	430	KRAK	4	S/F	1226.5	1228.1	5.2	100.0	14.0		
	430	KRAK	27	RF	1301.6	1306.2	12.8	64.0	10.0		
	430	KRAK	8	S	1332.7	1333.0	.8	36.0			
	430	KRAK	8	S	1341.2	1341.3	.3	23.0			
	9400	HUAN	20	GRF	1341.4	1352.8	22.1	6.9	2.5		0
	2800	OTTA	20	GRF	1347.0	1351.0	100.0	4.8	2.4		
	234	POTS	42	SER	1355.8	1359.5	3.8	240.0	2.0		III
	113	POTS	4	S/F	1359.0	1359.3	10.0	200.0	20.0		III
	33	UPIC	45	C	1359.2	1359.5	1.1				
	29	UPIC	4	S/F	1359.3	1359.8	1.0				
	9400	HUAN	20	GRF	1513.4	1517.2	11.3	5.2	3.5		0
	2800	OTTA	240	AR	1549.0	1555.0	6.0	3.8	2.0		
	2800	OTTA	8	S	1552.9	1553.2	.8	3.8	2.4		
	9400	HUAN	20	GRF	1558.1	1601.8	27.6	15.6	4.3		L
	2800	OTTA	3	S	1559.0	1602.0	6.0	16.6	7.6		
	2800	OTTA	29	PBI	1605.0	1605.0	15.0	7.0	3.4		
	930	BORD	8	S	1650.9	1650.9	.2	76.0	2.0		
	245	PALE	47	GB	2104.8	2105.1	3.0	57.0			QL=6 ST=2 TYP=5
	3750	TYKW	21	GRF	2355.0	0055.0	145.0	6.0	3.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
02	100	GORK	44	NS	0503.0E		399.0D		10.0		
	200	GORK	44	NS	0504.0E		421.0D		20.0		
	204	IZMI	43	NS	0600.0		360.0D	20.0			
	127	TORN	44	NS	0700.0E	1213.6	480.0D	250.0	5.0		V1
	536	ONDR	44	NS	0740.0E		90.0D				
	260	ONDR	44	NS	0740.0E	1405.0U	665.0D				
	245	SGMR	43	NS	1139.0	1554.3	573.0D	230.0			QL=6 ST=2 TYP=1
	536	ONDR	43	NS	1318.0	1431.0U	98.0D				
	245	PALE	43	NS	1725.0	1831.0		350.0			QL=6 ST=3 TYP=1
	208	VORO	44	NS	2300.0E		240.0D		29.0		
	245	LEAR	43	NS	2326.1	0118.3	668.0D	119.0			QL=6 ST=2 TYP=1
	9400	TYKW	5	S	0003.5	0003.8	.5D	6.0	3.0D		
	1415	LEAR	4	S/F	0035.1	0035.3	20.0	18.0			QL=6 ST=2 TYP=3
	610	LEAR	4	S/F	0035.3	0035.5	10.0	22.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0043.0	0044.1	2.0	4.0	1.5		
	1000	TYKW	45	C	0125.8	0126.0	1.5	22.0	4.0		
	410	LEAR	47	GB	0129.0	0129.3	10.0	60.0			QL=6 ST=2 TYP=5
	2000	TYKW	45	C	0129.0	0129.5	1.0	12.0	2.0		
	1000	TYKW	45	C	0129.0	0129.6	1.0	9.0	2.0		
	245	LEAR	47	GB	0129.1	0129.3	1.0U	169.0			QL=6 ST=2 TYP=5
	610	LEAR	4	S/F	0129.1	0129.6	100.0	11.0			QL=6 ST=2 TYP=3
	9395	PEKG	1	S	0146.0	0147.0	3.0	7.9	1.2		
	9395	PEKG	41	F	0307.0	0310.9	12.0	12.0	3.0		
	3750	TYKW	5	S	0450.0	0453.0	10.0	3.0	1.0		
	245	LEAR	8	S	0544.1	0544.8	1.0	20.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0544.8	0545.0	1.0	13.0			QL=6 ST=2 TYP=3
	3100	CRIM	1	S	0727.0	0728.0	3.0	16.0	5.0		
	2950	GORK	20	GRF	0757.6	0809.0	42.0	8.6	4.0		
	1470	POTS	20	GRF	0800.0	0818.0	58.0	4.0			
	4995	LEAR	20	GRF	0805.0	0811.3	15.0	11.0			QL=6 ST=2 TYP=2
	8800	LEAR	20	GRF	0805.0	0811.3	15.0	11.0			QL=6 ST=2 TYP=2
	3000	POTS	20	GRF	0805.0	0812.0	55.0	7.0			
	9500	POTS	20	GRF	0805.0	0824.0	115.0	15.0			
	6100	KISV	21	GRF	0805.0	0824.5	60.0	9.0			
	9100	GORK	22	GRF	0806.9	0824.3	234.0D	12.0			
	9395	PEKG	1	S	0822.0	0824.4	5.0	7.7	1.7		
	930	BORD	46	C	0902.4	0902.5	.3	29.0	2.0		
	4995	LEAR	20	GRF	0929.5	0930.1	7.0	13.0			QL=6 ST=2 TYP=2
	8800	LEAR	20	GRF	0929.5	0930.1	7.0	17.0			QL=6 ST=2 TYP=2
	930	BORD	41	F	0954.0	0954.1	.3	23.0	2.0		
	430	KRAK	8	S	1020.4	1020.4	.2	33.0			
	430	KRAK	8	S	1045.6	1045.7	.2	50.0			
	930	BORD	41	F	1049.5	1049.6	.2	11.0	2.0		
	930	BORD	41	F	1103.8	1103.9	.3	23.0	2.0		
	3100	CRIM	20	GRF	1115.0	1119.0	65.0	20.0	7.0		
	1470	POTS	20	GRF	1133.0	1213.0	187.0	13.0			
	9500	POTS	20	GRF	1145.0	1221.0	140.0	13.0			
	3000	POTS	20	GRF	1145.0	1221.0	165.0	26.0			
	234	POTS	4	S/F	1200.6	1200.7	.4	170.0	20.0		III
	113	POTS	4	S/F	1200.7	1200.8	.1	125.0	25.0		III
	536	ONDR	42	SER	1201.7	1202.0	.8				
	6100	KISV	20	GRF	1203.0	1221.0	48.0	12.0			
	113	POTS	4	S/F	1213.3	1213.4	.3	400.0	80.0		III
	536	ONDR	8	S	1239.0	1239.0	.1	34.0			
	2800	OTTA	23	GRF	1240.0	1255.0	245.0D	13.4			
	234	POTS	4	S/F	1242.6	1242.6	.3	575.0	120.0		
	29	UPIC	3	S	1256.8	1257.0	.6				
	33	UPIC	8	S	1256.9	1256.9	.5				
	9400	HUAN	8	S	1307.1	1307.3	.7	18.9	6.9		0
	536	ONDR	8	S	1312.0	1312.0	.1	3.3			
	2800	OTTA	3A	S	1558.0	1605.0	13.0	14.0	7.0		
	2695	SGMR	4	S/F	1558.8	1600.3	4.0	33.0			QL=6 ST=3 TYP=3
	2650	DWIN	2	S/F	1559.0	1600.0	3.0	17.0	8.0		
	2800	OTTA	1	S	1559.0	1600.5	3.0	5.6	2.8		
	4995	SGMR	8	S	1559.0	1600.6	2.0	48.0			QL=6 ST=3 TYP=3
	9400	HUAN	20	GRF	1559.2	1607.3	17.4	5.2	4.3		0
	930	BORD	41	F	1626.4	1626.6	.2	23.0	.2		
	2800	OTTA	240	R	1710.0	1815.0	65.0	4.8	2.4		
	2800	OTTA	4	S/F	1845.0	1846.3	4.0	82.0	22.0		
	9400	HUAN	4	S/F	1845.3	1846.2	2.0	56.7	28.2		R

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
02	4995	SGMR	47	GB	1845.6	1845.8	1.0	93.0			QL=6 ST=2 TYP=5
	2695	SGMR	47	GB	1845.6	1846.1	2.0	74.0			QL=6 ST=2 TYP=5
	1415	SGMR	47	GB	1845.6	1846.1	1.0	57.0			QL=6 ST=2 TYP=5
	410	SGMR	47	GB	1845.6	1846.3	1.0	200.0			QL=6 ST=2 TYP=5
	610	SGMR	47	GB	1845.6	1846.8	2.0	280.0			QL=6 ST=2 TYP=5
	8800	SGMR	47	GB	1845.8	1845.8	1.0	61.0			QL=6 ST=2 TYP=5
1	15400	SGMR	8	S	1845.8	1846.1	1.0	40.0			QL=6 ST=2 TYP=3
	245	SGMR	4	S/F	1845.8	1849.5	4.0	330.0			QL=6 ST=2 TYP=3
1	610	PALE	47	GB	1846.6	1846.8	1.0	310.0			QL=6 ST=2 TYP=5
	9400	HUAN	29	PBI	1847.3	1847.3	11.0	12.0	3.4		0
1	2800	OTTA	29	PBI	1849.0	1849.0	11.0	3.8	1.7		
	2800	OTTA	21	GRF	1905.0	2055.0	195.0	8.4	4.2		
3	2800	OTTA	20	GRF	2129.0	2131.0	15.0	5.8	2.0		
3	3750	TYKW	20	GRF	2230.0	2251.5	70.0	5.0	2.0		
	410	LEAR	8	S	2326.1	2326.1	1.0	25.0			QL=6 ST=2 TYP=3
5	200	GORK	44	NS	0522.0E		398.0D		5.0		
	536	ONDR	43	NS	0740.0		100.0D				
	260	ONDR	44	NS	0740.0E	1352.0U	456.0D				
5	208	VORO	44	NS	2300.0E		240.0D		3.0		
3	245	LEAR	43	NS	2329.1	0632.1	664.0D	110.0			QL=6 ST=2 TYP=1
	3750	TYKW	20	GRF	0011.0	0029.0	80.0	4.0	2.0		
	2000	TYKW	20	GRF	0030.0	0055.0	80.0	2.0	1.0		
	410	LEAR	8	S	0108.8	0108.8	1.0	15.0			QL=6 ST=2 TYP=3
3	3750	TYKW	5	S	0203.0	0205.0	4.0	7.0	3.0		
3	2000	TYKW	45	C	0204.0	0205.1	2.0	1.5	.5		
	1000	TYKW	45	C	0204.0	0205.2	2.0	10.0	2.0		
	2000	TYKW	21	GRF	0204.0	0356.0	205.0	5.0	2.5		
	3750	TYKW	29	PBI	0207.0		17.0	2.0	1.0		
2	3750	TYKW	5	S	0229.0	0230.5	8.0	4.0	1.5		
2	3750	TYKW	5	S	0239.5	0241.5	12.0	3.0	1.5		
	245	LEAR	8	S	0256.1	0256.3	2.0	20.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0256.3	0258.1	2.0	25.0			QL=6 ST=2 TYP=3
	2695	MANI	3	S	0256.7	0258.0	2.5	13.3	4.4		
	610	LEAR	8	S	0256.8	0258.1	2.0	10.0			QL=6 ST=2 TYP=3
	3750	TYKW	45	C	0257.0	0257.8	3.0	13.0	6.0		
	1415	MANI	1	S	0257.0	0258.0	2.5	4.5	1.5		
2	2840	PEKG	1	S	0257.0	0258.0	6.0	17.3	1.1		
2	1000	TYKW	5	S	0257.0	0258.3	3.0D	3.0	1.5D		
	4995	MANI	3	S	0257.3	0257.8	2.2	28.5	9.5		
	2695	LEAR	8	S	0257.5	0257.8	2.0	17.0			QL=6 ST=2 TYP=3
	4995	LEAR	8	S	0257.6	0257.8	2.0	13.0			QL=6 ST=2 TYP=3
	9395	PEKG	41	F	0257.7	0258.1	9.3	7.0	1.6		
	2000	TYKW	5	S	0258.0E	0258.2U	5.0D	7.0	2.5D		
	8800	LEAR	8	S	0258.0	0258.5	1.0	13.0			QL=6 ST=2 TYP=3
	3750	TYKW	21	GRF	0320.0	0356.0	120.0	16.0	7.0U		
	9400	TYKW	20	GRF	0336.0	0400.0	105.0	11.0	4.0		
	2000	TYKW	5	S	0338.0	0346.0	15.0	3.0	1.0		
	17000	NOBE	20	GRF	0347.0	0404.0	35.0	8.0			0
	3750	TYKW	5	S	0420.5	0421.3	2.5	3.0	1.0		
	2000	TYKW	5	S	0455.0	0455.2	1.0	3.0	.7		
	9395	PEKG	1	S	0504.0	0506.5	6.0	13.1	.1		
	3750	TYKW	5	S	0538.0	0538.4	4.0	2.0	.7		
	3750	TYKW	21	GRF	0557.0	0630.0	115.0	5.0	2.5		
	2000	TYKW	20	GRF	0610.0	0632.0	90.0	3.0	1.0		
	2950	GORK	21	GRF	0619.4	1021.0	350.0D	9.9			
	410	LEAR	47	GB	0625.6	0625.6	20.0	200.0			QL=6 ST=2 TYP=5
	610	LEAR	8	S	0625.6	0625.6	1.0	20.0			QL=6 ST=3 TYP=3
	245	LEAR	47	GB	0625.6	0625.8	20.0	160.0			QL=6 ST=2 TYP=5
	9395	PEKG	41	F	0652.0	0705.0	19.0	8.3	2.3		
	6100	KISV	20	GRF	0720.5	0729.0	25.0	4.0			
3	204	IZMI	41	F	0723.5	0723.7	.5	110.0			
	3750	TYKW	5	S	0726.0	0728.4	7.0	6.0	2.0		
	204	IZMI	4	S/F	0800.2	0800.3	.5	75.0	40.0		
3	204	IZMI	5	S	0813.8	0814.0	.5	85.0	50.0		
	204	IZMI	41	F	0908.5	0909.0	.8	100.0			
	6100	KISV	21	GRF	0918.5	0922.7	22.0	5.0			
	9100	GORK	21	GRF	0920.5	1136.2	165.0D	12.0			
	234	POTS	8	S	0928.4	0928.4	.1	4800.0	1600.0		
	410	LEAR	4	S/F	0951.0	0951.0	200.0	27.0			QL=6 ST=2 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
03	6100	KISV	3	S	0954.4	0955.4	2.0	7.0			
	204	IZMI	41	F	1059.5	1059.9	5.5	320.0			
	6100	KISV	46	C	1130.0	1132.2	5.0	22.0			
	6100	KISV			1130.0	1132.7		11.0			
	6100	KISV			1130.0	1133.1		16.0			
	9500	POTS	20	GRF	1131.0	1132.0	39.0	10.0			
	3100	CRIM	1	S	1131.0	1132.0	3.0	22.0	7.0		
	1470	POTS	3	S	1131.5	1132.3	3.5	6.0			
	2950	GORK	3	S	1131.7	1132.1	2.0	18.0			
	2650	DWIN	2	S/F	1132.0	1132.0	2.0	20.0	10.0		
	3000	POTS	4	S/F	1132.0	1132.3	2.0	19.0			
	536	ONDR	8	S	1132.2	1132.2	.2	78.0			
	6100	KISV	29	PBI	1135.0	1135.0	27.0	6.0			
	536	ONDR	8	S	1213.0	1213.1	.1	27.0			
	2800	OTTA	20	GRF	1255.0	1320.0	115.0	6.6	3.3		
	113	POTS	41	F	1349.0	1349.1	2.7	110.0	2.0		III
	234	POTS	41	F	1349.0	1351.3	2.9	200.0	2.0		III
	245	SGMR	47	GB	1349.0	1351.5	3.0	210.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	1406.1	1406.3	1.0	360.0			QL=6 ST=2 TYP=5
	234	POTS	4	S/F	1406.2	1406.8	1.0	340.0	35.0		III
	113	POTS	4	S/F	1406.2	1406.9	1.5	3200.0	400.0		III/V
	33	UPIC	45	C	1406.5	1406.5	1.5				
	29	UPIC	45	C	1406.6	1406.8	1.5				
	113	POTS	4	S/F	1448.9	1449.8	1.3	150.0	15.0		III
	2800	OTTA	21	GRF	1505.0	1620.0	105.0	4.2	2.4		
	930	BORD	46	C	1639.0	1640.1	4.0	51.0	6.0		
	2800	OTTA	1	S	1639.5	1640.3	5.0	4.6	1.6		
	2800	OTTA	20	GRF	1705.0	1720.0	55.0	2.8	1.4		
	410	SGMR	8	S	1959.6	2000.5	2.0	23.0			QL=6 ST=3 TYP=3
	245	PALE	47	GB	2000.5	2000.6		180.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	2000.5	2000.8	10.0	119.0			QL=6 ST=3 TYP=5
	3750	TYKW	5	S	2249.0	2250.0	4.0	1.5	.5		
	3750	TYKW	21	GRF	2300.0	2350.0	130.0	4.0	2.0		
	9400	TYKW	20	GRF	2310.0	2345.0	100.0	3.0	1.5		
04	410	LEAR	43	NS	0110.0	0110.3	563.00	17.0			QL=6 ST=2 TYP=1
	200	GORK	44	NS	0511.0E		412.00		5.0		
	536	ONDR	44	NS	0733.0E		97.00				
	260	ONDR	44	NS	0733.0E	1405.0U	444.00				
	245	PALE	43	NS	1712.0	2010.0	658.00	200.0			QL=6 ST=2 TYP=1
	9395	PEKG	1	S	0045.5	0047.0	2.5	8.3	2.2		
	100	HIRA	46	C	0053.0	0056.0	15.0	2500.0	220.0		WL
	200	HIRA	46	C	0054.6	0055.7	4.0	720.0	135.0		WL
	500	HIRA	46	C	0054.7	0055.8	5.0	300.0	30.0		ML
	208	VORO	4	S/F	0055.0	0056.0	4.0	200.00			
	1000	TYKW	45	C	0055.0	0056.4	6.0	73.0	16.0		
	2000	TYKW	45	C	0055.0	0056.7	4.0	33.0	5.0		
	1415	MANI	4	S/F	0055.0	0056.8	4.5	44.8	14.9		
	2840	PEKG	1	S	0055.0	0057.0	5.0	9.3	.1		
	9395	PEKG	1	S	0055.0	0058.5	7.0	4.5	1.7		
	410	LEAR	47	GB	0055.3	0055.8	4.0	480.0			QL=6 ST=2 TYP=5
	245	LEAR	49	GB	0055.5	0056.1	4.0	2399.0			QL=6 ST=2 TYP=6
	2695	MANI	4	S/F	0055.5	0056.8	3.0	27.6	9.2		
	3750	TYKW	45	C	0055.5	0058.0	3.5	15.0	4.0		
	610	LEAR	47	GB	0055.6	0055.8	4.0	200.0			QL=6 ST=2 TYP=5
	610	PALE	47	GB	0055.6	0055.8		189.0			QL=6 ST=3 TYP=5
	245	PALE	49	GB	0055.6	0056.1		2199.0			QL=6 ST=3 TYP=6
	4995	LEAR	4	S/F	0055.6	0056.3	3.0	15.0			QL=6 ST=2 TYP=3
	410	PALE	47	GB	0055.6	0057.1		400.0			QL=6 ST=3 TYP=5
	8800	LEAR	4	S/F	0055.8	0056.3	4.0	18.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0055.8	0056.8	3.0	15.0			QL=6 ST=2 TYP=3
	1415	LEAR	47	GB	0055.8	0056.8	4.0	60.0			QL=6 ST=2 TYP=5
	1415	PALE	47	GB	0056.0	0056.6		54.0			QL=6 ST=3 TYP=5
	9400	TYKW	45	C	0056.0	0058.0	6.0	4.0	1.5		
	1000	TYKW	29	PBI	0101.0		20.0	2.0	1.0		
	2000	TYKW	21	GRF	0137.0	0230.0	115.0	6.0	3.0		
	2695	MANI	22	GRF	0139.0	0147.4	18.0	25.4	8.5		
	4995	MANI	4	S/F	0144.2	0147.4	4.8	52.0	17.3		
	9400	TYKW	45	C	0145.0	0147.1	4.0	18.0	8.0		
	3750	TYKW	45	C	0145.0	0147.3	6.0	37.0	13.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
04	8800	MANI	3	S	0146.0	0147.5	3.0	33.5	11.2		
	9395	PEKG	1	S	0146.0	0147.5	3.0	12.4	5.2		
	2840	PEKG	1	S	0146.0	0147.5	3.5	17.6	.3		
	2000	TYKW	5	S	0146.0	0147.7	3.0	8.0	3.0		
	2695	LEAR	8	S	0146.1	0147.6	2.0	18.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0146.1	0147.6	2.0	19.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0146.1	0147.6	3.0	31.0			QL=6 ST=2 TYP=3
	4995	PALE	8	S	0146.3	0147.1	2.0	40.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	0146.8	0147.1	1.0	22.0			QL=6 ST=2 TYP=3
	2695	PALE	4	S/F	0147.1	0147.3	30.0	16.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	0149.0		100.0	7.0	3.0		
	2000	TYKW	29	PBI	0149.0		12.0	2.0	1.0		
	9395	PEKG	20	GRF	0150.0	0200.0	17.0	5.6	2.9		
	3750	TYKW	30	PBI	0151.0		45.0	6.0	2.5		
	3750	TYKW	45	C	0214.0	0218.4	20.0	3.0	1.0		
	1000	TYKW	45	C	0237.0	0238.0	4.0	9.0	2.0		
	3750	TYKW	5	S	0245.0	0253.0	25.0U	3.0	1.5U		
	3750	TYKW	21	GRF	0350.0	0500.0	170.0	8.0	4.0		
	2000	TYKW	21	GRF	0400.0	0414.0	180.0	5.0	2.0		
	2000	TYKW	5	S	0402.0	0402.7	3.0	1.5	.5		
	2000	TYKW	5	S	0411.0	0411.6	1.5	3.0	1.0		
	1000	TYKW	45	C	0411.0	0411.8	3.0	2.5	1.0		
	245	LEAR	47	GB	0411.1	0411.5	2.0	340.0			QL=6 ST=2 TYP=5
	410	LEAR	8	S	0411.1	0411.8	2.0	21.0			QL=6 ST=2 TYP=3
	9395	PEKG	1	S	0419.3	0419.8	1.7	6.7	1.9		
	9400	TYKW	20	GRF	0420.0	0600.0	170.0	6.0	3.0U		INTERFERENCE
	9100	GORK	20	GRF	0528.0	0609.0	80.0	12.0			
	245	LEAR	8	S	0533.1	0533.8	1.0	26.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0533.3	0533.8	1.0	16.0			QL=6 ST=2 TYP=3
	3750	TYKW	45	C	0550.0	0605.8	45.0	15.0	5.0		
	2950	GORK	22	GRF	0551.5	0558.8	30.0	10.0			
	2000	TYKW	5	S	0557.0	0558.8	4.0	8.0	3.5		
	100	GORK	41	F	0557.9	0558.1	4.2	150.00			
	100	GORK			0557.9	0601.4		3200.0			
	100	GORK			0557.9	0602.0		1300.00			
	2840	PEKG	5	S	0558.0	0559.0	11.0	10.0	2.4		
	234	POTS	4	S/F	0600.0	0600.7	1.0	150.0	25.0		III
	113	POTS	4	S/F	0600.0	0601.5	2.5	450.0	35.0		III
	410	LEAR	47	GB	0600.1	0600.3	1.0	119.0			QL=6 ST=2 TYP=5
	245	LEAR	47	GB	0600.1	0600.6	2.0	230.0			QL=6 ST=2 TYP=5
	204	IZMI	41	F	0600.2	0600.5	1.5	160.0			
	2000	TYKW	29	PBI	0601.0		20.0	2.0	1.0		
	245	LEAR	4	S/F	0608.3	0608.3	20.0	28.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0608.3	0608.5	10.0	20.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0651.0	0651.6	5.0U	3.0	1.0		INTERFERENCE
	9100	GORK	20	GRF	0828.6	0921.7	208.0D	14.0			
	3000	POTS	4	S/F	0920.0	0921.0	2.5	12.0			
	6100	KISV	2	S/F	0920.2	0921.7	2.5	10.0			
	2950	GORK	20	GRF	0920.3	0920.9	16.5	11.0			
	4995	LEAR	8	S	0920.5	0921.6	2.0	30.0			QL=6 ST=2 TYP=3
	9500	POTS	1	S	0920.5	0922.0	2.5	7.0			
	8800	LEAR	8	S	0920.8	0921.6	2.0	13.0			QL=6 ST=2 TYP=3
	6100	KISV	1	S	1057.3	1058.1	3.0	5.0			
	2650	DWIN	2	S/F	1106.0	1106.0	1.0	450.00			
	536	ONDR	8	S	1218.0	1218.0	.1	24.0			
	536	ONDR	8	S	1241.8	1241.9	.1	114.0			
	113	POTS	8	S	1300.1	1300.2	.7	100.0	30.0		III
	2800	OTTA	22	GRF	1310.0	1350.0	90.0	6.2			
	930	BORD	8	S	1321.4	1321.4	.2	32.0	1.0		
	234	POTS	4	S/F	1329.6	1329.8	.6	600.0	15.0		III
	4995	SGMR	8	S	1332.5	1333.1	1.0	31.0			QL=6 ST=3 TYP=3
	4995	SGMR	8	S	1334.5	1335.1	1.0	31.0			QL=6 ST=2 TYP=3
	536	ONDR	8	S	1336.4	1336.4	.1	34.0			
	536	ONDR	8	S	1438.3	1438.3	10.1	15.0			
	2800	OTTA	21	GRF	1455.0	1610.0	220.0	10.4	5.2		
	9400	HUAN	20	GRF	1537.3	1605.2	59.2	5.0	2.0		0
	2800	OTTA	1	S	1648.0	1649.0	6.0	4.6	2.3		
	9400	HUAN	20	GRF	1800.9	1813.0	31.9	4.2	2.1		0
	2800	OTTA	240	R	2035.0	2055.0	20.0	4.2	2.6		
	4995	SGMR	8	S	2059.1	2059.5	1.0	23.0			QL=6 ST=2 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
04	8800	SGMR	8	S	2059.1	2059.5	1.0	20.0			QL=6 ST=3 TYP=3
	9400	HUAN	3	S	2059.2	2059.5	1.0	30.3	11.8		0
	2800	OTTA	21	GRF	2105.0	2205.0	115.0	11.0	5.5		
	2800	OTTA	2	S/F	2114.2	2114.8	2.5	7.0	3.0		
	3750	TYKW	45	C	2213.0	2215.0	9.0	17.0	10.0U		RAIN
	2800	OTTA	4	S/F	2214.0	2215.0	2.0	10.2	5.1		
	2000	TYKW	21	GRF	2214.0	2225.0	50.0	4.0	2.0		
	2000	TYKW	45	C	2214.7	2215.3	1.0	7.0	1.5		
	2695	PENT	29	PBI	2216.0	2216.0	25.0	6.2	3.1		
	3750	TYKW	29	PBI	2222.0		30.0U	9.0U	5.0U		
	410	LEAR	4	S/F	2324.5	2324.6	100.0	16.0			QL=6 ST=2 TYP=3
	3750	TYKW	45	C	2333.0	2346.4	47.0	7.0	3.0		
	2000	TYKW	5	S	2333.8	2334.2	1.0	13.0	2.0		
05	245	LEAR	43	NS	0053.0	0326.1	579.0D	93.0			QL=6 ST=2 TYP=1
	200	GORK	44	NS	0453.0E		304.0D		5.0		
	410	LEAR	43	NS	0550.0	0732.8	282.0D	22.0			QL=6 ST=2 TYP=1
	260	ONDR	44	NS	0715.0E		55.0D				
	260	ONDR	43	NS	1100.0	1410.0U	190.0D	21.0U			
	3750	TYKW	20	GRF	0023.0	0035.0	40.0	5.0	2.5		
	9400	TYKW	28	PRE	0127.0	0128.4	35.0	9.0	3.0U		RAIN
	2000	TYKW	28	PRE	0127.0	0142.0	35.0	7.0	3.5		
	3750	TYKW	28	PRE	0127.0	0142.0	35.0	19.0	9.0		
	1000	TYKW	45	C	0131.6	0131.8	1.0	5.0	1.0		
	9395	PEKG	45	C	0156.0	0204.4	18.0D	21.4	1.9		
	2840	PEKG	45	C	0159.0	0204.6	10.0	60.0	9.5		
	2930	VORO	3	S	0200.0	0205.0	10.0	57.0			
	1000	TYKW	45	C	0202.0	0203.6	7.0	10.0	2.5		
	9400	TYKW	5	S	0202.0	0204.0	6.0	25.0	13.0		
	2000	TYKW	45	C	0202.0	0204.2	8.0	30.0	16.0		
	3750	TYKW	45	C	0202.0	0204.2	10.0	91.0	33.0		
	2695	MANI	4	S/F	0202.0	0204.5	7.0	50.4	16.8		
	4995	PALE	47	GB	0202.1	0204.1	6.0	61.0			QL=6 ST=2 TYP=5
	4995	LEAR	47	GB	0202.1	0204.1	7.0	54.0			QL=6 ST=2 TYP=5
	4995	MANI	4	S/F	0202.2	0203.5	4.3	70.6	23.5		
	8800	PALE	4	S/F	0202.3	0204.1	5.0	38.0			QL=6 ST=2 TYP=3
	2695	PALE	4	S/F	0202.3	0204.1	5.0	43.0			QL=6 ST=2 TYP=3
	8800	MANI	4	S/F	0202.5	0204.2	4.5	52.0	17.3		
	610	LEAR	47	GB	0202.6	0203.6	1.0	239.0			QL=6 ST=2 TYP=5
	2695	LEAR	4	S/F	0202.6	0204.1	7.0	47.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0202.6	0204.1	5.0	29.0			QL=6 ST=2 TYP=3
	15400	LEAR	4	S/F	0202.6	0204.1	7.0	24.0			QL=6 ST=2 TYP=3
	606	MANI	4	S/F	0203.0	0203.8	1.4	152.5	50.8		
	15400	PALE	8	S	0203.8	0204.3	1.0	23.0			QL=6 ST=2 TYP=3
	1415	PALE	8	S	0205.6	0205.8	1.0	11.0			QL=6 ST=2 TYP=3
	1415	LEAR	4	S/F	0205.6	0205.8	4.0	13.0			QL=6 ST=3 TYP=3
	9400	TYKW	30	PBI	0208.0		235.0	10.0	5.0U		RAIN
	1000	TYKW	30	PBI	0209.0		170.0	2.0	1.0		
	2840	PEKG	29	PBI	0209.0	0223.5	26.0	16.4	.6		
	2000	TYKW	30	PBI	0210.0		250.0	12.0	6.0		
	3750	TYKW	30	PBI	0212.0		250.0	19.0	9.0		
	2000	TYKW	28	PRE	0213.0	0223.0	29.0	9.0	3.5		
	1000	TYKW	45	C	0213.0	0224.0	14.0	8.0	1.0		
	9400	TYKW	28	PRE	0215.0	0238.3	28.0	12.0	3.0		
	3750	TYKW	28	PRE	0216.0	0238.4	26.0	17.0	6.0		
	2840	PEKG	1	S	0237.0	0238.5	4.0	9.6	4.6		
	9395	PEKG	1	S	0237.0	0238.5	5.0	9.6	1.2		
	2695	MANI	4	S/F	0237.5	0244.4	12.0	73.1	24.4		
	4995	MANI	4	S/F	0238.0	0244.0	12.7	220.5	73.5		
	8800	MANI	4	S/F	0238.0	0244.4	12.7	108.0	36.0		
	2930	VORO	3	S	0240.0	0244.0	10.0	124.0			
	3750	TYKW	45	C	0242.0	0244.0	32.0	170.0	23.0		
	2000	TYKW	45	C	0242.0	0244.0	30.0	34.0	11.0		
	2840	PEKG	3	S	0242.0	0244.1	11.0	11.1	10.6		
	9395	PEKG	3	S	0242.0	0244.3	5.0	58.0	14.1		
	4995	PALE	47	GB	0242.8	0243.6	9.0	160.0			QL=6 ST=2 TYP=5
	2695	PALE	47	GB	0242.8	0243.8	4.0	70.0			QL=6 ST=2 TYP=5
	8800	PALE	47	GB	0243.0	0243.8	28.0	80.0			QL=6 ST=2 TYP=5
	9400	TYKW	45	C	0243.0	0244.0	35.0	62.0	30.0		
	15400	PALE	4	S/F	0243.6	0244.3	23.0	29.0			QL=6 ST=2 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
05	9395	PEKG	29	PBI	0247.0	0259.6	43.0	26.2	.7		
	2840	PEKG	29	PBI	0253.0	0257.0	27.0	17.0	3.6		
	2000	TYKW	30	PBI	0312.0		130.0	10.0	4.0		
	3750	TYKW	30	PBI	0314.0		100.0	15.0	7.0		
	9400	TYKW	29	PBI	0318.0		90.0	17.0	8.0U		RAIN
	245	PALE	8	S	0328.6	0328.8	1.0	20.0			QL=5 ST=2 TYP=3
	3750	TYKW	45	C	0415.5	0418.0	8.0	10.0	4.0		
	610	LEAR	4	S/F	0421.3	0421.3	10.0	37.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0421.3	0421.5	1000.0	34.0			QL=6 ST=2 TYP=3
	3750	TYKW	20	GRF	0505.0	0524.0	55.0	5.0	2.0		
	2000	TYKW	5	S	0506.5	0507.1	2.5	4.0	1.5		
	410	LEAR	4	S/F	0547.1	0547.1	169.6	18.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0619.0	0619.3	1.5	1.5	.5		
	3750	TYKW	5	S	0628.0	0630.0	5.0	2.0	.7		
	2950	GORK	21	GRF	0639.0	0848.0	187.0D	15.0			
	15000	KISV	2	S/F	0639.3	0642.0	4.0	42.0			
	6100	KISV	4	S/F	0639.8	0642.0	4.0	36.0			
	3750	TYKW	45	C	0640.0	0641.8	7.0	95.0	18.0		INTERFERENCE
	9400	TYKW	5	S	0640.0	0641.8	3.0	33.0	9.0		RAIN
	2840	PEKG	3	S	0640.0	0642.1	18.0	349.0	38.2		
	2000	TYKW	21	GRF	0640.0	0645.0	75.0	5.0	2.5		
	8400	BERN	3	S	0640.7	0641.8	3.5	46.0			
	19600	BERN	3	S	0640.7	0641.8	3.5	46.0			
	4995	LEAR	47	GB	0640.8	0641.8	3.0	87.0			QL=6 ST=2 TYP=5
	2695	ATHN	8	S	0640.8	0641.8	2.0	27.0			QL=2 ST=2 TYP=3
	2950	GORK	4	S/F	0641.0	0641.7	1.8	36.0			
	2695	LEAR	8	S	0641.0	0641.8	1.0	32.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0641.0	0641.8	2.0	48.0			QL=6 ST=2 TYP=3
	3100	CRIM	1	S	0641.0	0641.8	2.0	47.0	16.0		
	2000	TYKW	45	C	0641.0	0642.0U	2.0	10.0U	4.0U		INTERFERENCE
	9395	PEKG	5	S	0641.0	0642.1	20.0	29.0	4.9		
	9100	GORK	3	S	0641.0	0642.2	2.0	42.0			
	8800	ATHN	8	S	0641.1	0641.8	2.0	31.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0641.1	0641.8	1.0	20.0			QL=6 ST=2 TYP=3
	9395	PEKG	29	PBI	0642.0	0642.8	18.0	8.6	3.1		
	2695	MANI	3	S	0642.0	0643.0	3.0	34.0	11.3		
	4995	MANI	3	S	0642.2	0643.0	2.0	114.7	38.2		
	8800	MANI	3	S	0642.2	0643.2	2.0	80.0	26.7		
	9400	TYKW	29	PBI	0643.0		60.0U	6.0U	3.0U		
	3100	CRIM	29	PBI	0643.0	0643.0	7.0	10.0	3.0		
	9100	GORK	29	PBI	0643.0	0643.0	58.6	11.0			
	3750	TYKW	29	PBI	0647.0		60.0	10.0	5.0U		
	2840	PEKG	29	PBI	0649.0	0656.2	84.0	6.2	1.9		
	9100	GORK	20	GRF	0752.6	0849.0	111.0	15.0			
	2650	DWIN	2	S/F	0804.0	0804.0	1.0	200.0	100.0		
	3000	POTS	20	GRF	0825.0	0845.0	85.0	23.0			
	6100	KISV	21	GRF	0832.7	0844.8	50.0	11.0			
	9500	POTS	20	GRF	0835.0	0850.0	75.0	13.0			
	2840	PEKG	45	C	0843.0	0845.0	9.0	15.1	3.0		
	2950	GORK	1	S	0844.0	0844.9	2.5	11.0			
	3100	CRIM	26	FAL	0926.0	1036.0		11.0			
	6100	KISV	2	S/F	1205.5	1206.2	1.2	14.0			
	2650	DWIN	2	S/F	1206.0	1206.0	1.0	20.0D	10.0		
	3100	CRIM	1	S	1206.0	1209.0	6.0	22.0	7.0		
	3000	POTS	4	S/F	1208.0	1209.1	7.0	24.0			
	6100	KISV	1	S	1208.6	1209.1	.5	4.0			
	2650	DWIN	2	S/F	1209.0	1209.0	1.0	30.0	15.0		
	6100	KISV	20	GRF	1210.0	1224.0	30.0	8.0			
	3100	CRIM	29	PBI	1212.0	1212.0	25.0	13.0	4.0		
	536	ONDR	8	S	1225.1	1225.1	.1	124.0			
	810	KRAK	8	S	1230.2	1230.2	.2	17.0			
	430	KRAK	41	F	1255.4	1258.3	4.6	65.0			
	2800	OTTA	21	GRF	1345.0		140.0	3.8			
	2800	OTTA	1	S	1447.0	1447.8	2.0	5.2	2.6		
	2800	OTTA	22	GRF	1610.0	1620.0	90.0	3.8			
	9400	HUAN	20	GRF	1707.4	1710.2	15.0	6.5	3.0		0
	2800	OTTA	23	GRF	1745.0	1830.0	125.0	13.6	6.0		
	9400	HUAN	22	GRF	1810.7	1815.8	51.5	11.3	4.1		0
	9400	HUAN	3	S	1940.7	1942.0	3.3	155.7	30.8		L
	8800	PALE	47	GB	1941.5	1941.8	1.0	160.0			QL=6 ST=2 TYP=5

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
05	15400	PALE	47	GB	1941.8	1941.8	1.0	97.0			QL=6 ST=2 TYP=5
	4995	PALE	8	S	1941.8	1941.8	1.0	49.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	1941.8	1942.0	1.0	2.8	1.4		
	9400	HUAN	20	GRF	1950.7	2000.8	21.3	6.5	5.4		0
	2800	OTTA	21	GRF	2025.0	2145.0	175.0	7.2	3.6		
	8800	PALE	4	S/F	2053.1	2054.1	6.0	34.0			QL=6 ST=3 TYP=3
	9400	HUAN	1	S	2053.1	2054.2	1.7	16.2	10.0		L
	4995	PALE	4	S/F	2053.5	2054.1	34.0	34.0			QL=6 ST=2 TYP=3
	2800	OTTA	4	S/F	2150.5	2153.0	9.0	20.0	7.0		
	2695	PALE	4	S/F	2151.3	2153.1	3.0	21.0			QL=6 ST=2 TYP=3
	4995	PALE	4	S/F	2151.6	2153.1	5.0	20.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	2233.0	2233.6	5.0	6.0	2.0		
06	200	GORK	44	NS	0501.0E		360.00		5.0		
	260	ONDR	44	NS	0758.0E		53.00				
	260	ONDR	43	NS	1030.0		218.00				
	245	PALE	44	NS	1720.0E	1801.0	671.00	44.0			QL=6 ST=2 TYP=1
	3750	TYKW	5	S	0025.0	0028.2	10.0	4.0	1.5		
	9400	TYKW	5	S	0026.0	0028.3	8.0	4.0	1.5		
	3750	TYKW	21	GRF	0048.0	0203.0	155.0	11.0	5.0		
	1000	TYKW	20	GRF	0128.0	0205.0	90.0	4.0	2.0		
	8800	MANI	3	S	0134.4	0135.0	1.3	65.9	22.0		
	4995	MANI	3	S	0134.5	0134.9	1.5	64.2	21.4		
	4995	PALE	8	S	0137.0	0137.1	2.0	26.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0137.0	0137.2	2.5	16.0	4.0		
	3750	TYKW	5	S	0137.0	0137.2	1.0	4.0	1.5		
	9395	PEKG	1	S	0137.0	0137.4	1.0	14.0	2.9		
	9400	TYKW	21	GRF	0137.0	0203.0	105.0	14.0	5.0		
	3750	TYKW	45	C	0143.0	0148.3	15.0	7.0	2.0		
	2000	TYKW	21	GRF	0145.0	0210.0	110.0	4.0	2.0		
	2000	TYKW	45	C	0147.5	0148.2	1.5	2.0	.7		
	3750	TYKW	45	C	0243.0	0243.8	2.0	4.0	1.0		
	9400	TYKW	5	S	0347.0	0350.0	8.0	3.0	1.5		
	9400	TYKW	20	GRF	0406.0	0409.3	30.0	4.0	1.5		
	3750	TYKW	5	S	0409.0	0417.0	25.0	4.0	2.0		
	3750	TYKW	28	PRE	0501.0	0508.0	7.0	2.0	1.0		
	9400	TYKW	45	C	0507.0	0510.6	10.0	19.0	9.0		
	3750	TYKW	45	C	0508.0	0510.6	8.0	11.0	7.0		
	6100	KISV	27	RF	0508.5	0512.4	9.5	11.0			
	9395	PEKG	5	S	0509.0	0510.7	11.0	15.0	.3		
	17000	NOBE	20	GRF	0509.0	0514.0	15.0	9.0			0
	9100	GORK	21	GRF	0509.0	0647.3	352.00	20.0			
	15000	KISV	27	RF	0509.3	0510.3	7.0	17.0			
	3750	TYKW	30	PBI	0516.0		40.0	7.0	4.0		
	9400	TYKW	29	PBI	0517.0		40.0	5.0	2.0		
	3750	TYKW	5	S	0532.0	0534.0	18.0	4.0	2.0		
	3750	TYKW	45	C	0603.0E	0611.0	17.00	7.0	5.00		
	3750	TYKW	29	PBI	0620.0		20.0	4.0	1.5		
	17000	NOBE	21	GRF	0639.1	0651.9	40.0	9.0			0
	3750	TYKW	45	C	0642.0	0643.7	4.0	32.0	12.0		INTERFERENCE
	9400	TYKW	45	C	0642.0	0643.7	5.0	49.0	17.0		
	2840	PEKG	1	S	0642.0	0644.1	9.0	11.0	2.1		
	8800	ATHN	47	GB	0642.3	0643.6	3.0	52.0			QL=5 ST=2 TYP=5
	9100	GORK	4	S/F	0642.3	0643.7	3.7	47.0	20.0		
	15000	KISV	4	S/F	0642.3	0643.7	4.5	90.0			
	8400	BERN	3	S	0642.3	0643.7	4.0	43.0			
	6100	KISV	4	S/F	0642.3	0643.8	5.5	26.0			
	9395	PEKG	5	S	0642.3	0643.9	21.0	39.0	4.2		
	4995	ATHN	47	GB	0642.5	0643.6	4.0	50.0			QL=5 ST=2 TYP=5
	2950	GORK	1	S	0642.5	0643.9	3.4	18.0			
	17000	NOBE	1	S	0643.5	0643.6	.8	44.0			R
	4995	MANI	3	S	0644.0	0645.6	4.0	81.9	27.3		
	2695	MANI	3	S	0644.5	0645.8	3.0	10.5	3.5		
	8800	MANI	3	S	0645.0	0645.7	3.0	72.5	24.2		
	3750	TYKW	29	PBI	0646.0		40.0	9.0	4.0U		
	9400	TYKW	29	PBI	0647.0		35.0	9.0	4.0		
	9100	GORK	8	S	0717.5	0717.7	.6	230.0			
	9395	PEKG	5	S	0803.0	0804.1	3.0	159.0	8.8		
	2840	PEKG	5	S	0803.0	0804.1	3.0	110.0	5.3		
	4995	ATHN	47	GB	0803.3	0803.8	1.0	100.0			QL=5 ST=2 TYP=5

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
06	19600	BERN	3	S	0803.3	0803.8	3.0	55.0			
	8400	BERN	4	S/F	0803.3	0803.8	3.0	168.0			
	1470	POTS	3	S	0803.3	0804.1	1.1	46.0			
	6100	KISV	8	S	0803.4	0803.6	1.0	55.0			
	3000	POTS	3	S	0803.4	0804.0	1.1	72.0			
	9500	POTS	3	S	0803.5	0803.7	1.5	129.0			
	9100	GORK	8	S	0803.5	0803.9	1.1	165.0			
	2950	GORK	3	S	0803.5	0803.9	.8	84.0			
	1415	ATHN	8	S	0803.6	0803.8	1.0	19.0			QL=5 ST=2 TYP=3
	8800	ATHN	47	GB	0803.6	0803.8	1.0	150.0			QL=5 ST=2 TYP=5
	2695	ATHN	47	GB	0803.6	0803.8	1.0	139.0			QL=5 ST=2 TYP=5
	9400	TYKW	5	S	0803.6	0803.9	1.0	147.0	38.0		
	3750	TYKW	5	S	0803.6	0803.9	1.0	50.0	13.0		
	2000	TYKW	45	C	0803.6	0804.0	1.0	170.0	25.0		
	17000	NOBE	1	S	0803.7	0803.9	.3	52.0			0
	4995	MANI	8	S	0805.3	0805.6	.8	128.1	42.7		
	2695	MANI	8	S	0805.5	0805.7	.8	136.5	45.5		
	8800	MANI	8	S	0805.5	0805.7	.9	125.6	41.9		
	6100	KISV	1	S	1049.6	1049.9	1.0	5.0			
	6100	KISV	21	GRF	1105.7	1113.0	15.0	5.0			
	3000	POTS	20	GRF	1127.0	1135.0	83.0	14.0			
	6100	KISV	20	GRF	1129.5	1135.0	30.0	10.0			
	9500	POTS	20	GRF	1130.0	1135.0	85.0	14.0			
	536	ONDR	8	S	1205.3	1205.3	.1	26.0			
	536	ONDR	8	S	1206.0	1206.0	.1	94.0			
	536	ONDR	8	S	1303.0	1303.0	.1	214.0			
	2800	OTTA	23	GRF	1550.0	1750.0	495.0	11.4			
	9400	HUAN	20	GRF	1601.8	1611.0	30.0	15.2	5.8		L
	9400	HUAN	20	GRF	1714.4	1721.0	8.9	5.1	2.7		0
	9400	HUAN	20	GRF	1745.1	1751.4	18.1	6.8	3.2		0
	410	PALE	47	GB	1756.0	1757.3	2.0	450.0			QL=6 ST=2 TYP=5
	610	PALE	8	S	1756.3	1757.3	2.0	43.0			QL=6 ST=2 TYP=3
	610	SGMR	8	S	1756.3	1757.3	2.0	40.0			QL=6 ST=2 TYP=3
	410	SGMR	47	GB	1757.1	1757.3	20.0	430.0			QL=6 ST=2 TYP=5
	2800	OTTA	1	S	1946.0	1947.5	4.0	2.8	1.4		
	410	SGMR	8	S	2115.6	2116.1	1.0	24.0			QL=6 ST=2 TYP=3
	610	SGMR	8	S	2115.8	2116.3	1.0	27.0			QL=6 ST=2 TYP=3
	410	PALE	4	S/F	2116.0	2116.1	20.0	30.0			QL=6 ST=2 TYP=3
	610	PALE	4	S/F	2116.0	2116.1	20.0	36.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	2303.0	2304.6	4.0	15.0	8.0		
	3750	TYKW	29	PBI	2307.0		25.0	6.0	1.5		
	9400	TYKW	21	GRF	2320.0	2355.0	65.0	4.0	2.0		
	3750	TYKW	21	GRF	2344.0	2357.5	55.0	3.0	1.5		
07	200	GORK	44	NS	0500.0E		360.0D		35.0		
	100	GORK	44	NS	0500.0E		150.0D		5.0		
	200	HIRA	43	NS	0523.0	0553.0	190.0D	35.0	20.0		0
	204	IZMI	43	NS	0600.0		360.0D	22.0			
	245	LEAR	43	NS	0630.0	1017.1	241.0D	37.0			QL=6 ST=2 TYP=1
	260	ONDR	44	NS	0718.0E	1413.0U	473.0D	20.0U			
	245	SGMR	43	NS	1130.0	1746.8		90.0			QL=6 ST=3 TYP=1
	245	PALE	43	NS	1715.0	2003.0	660.0D	370.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2239.0	0510.3	711.0D	62.0			QL=6 ST=2 TYP=1
	3750	TYKW	5	S	0005.0	0006.4	15.0	4.0	1.5		
	9400	TYKW	5	S	0010.5	0010.8	2.5	4.0	1.5		
	3750	TYKW	28	PRE	0104.0	0248.0	112.0	38.0	6.0		
	3750	TYKW	5	S	0118.0	0120.7	5.0	8.0	4.0		
	2000	TYKW	20	GRF	0119.0	0121.0	30.0	4.0	1.0		
	3750	TYKW	29	PBI	0123.0		25.0	4.0	2.0		
	2000	TYKW	5	S	0204.0	0205.2	4.0	3.0	1.0		
	3750	TYKW	5	S	0204.0	0205.2	4.0	8.0	1.5		
	9400	TYKW	5	S	0204.7	0205.1	2.0	5.0	1.5		
	2000	TYKW	28	PRE	0211.0	0253.2	45.0	21.0	4.0		
	35000	NAGO	29	PBI	0212.0	0212.0	125.0	140.0			
	9400	TYKW	28	PRE	0213.0	0248.0	43.0	79.0	10.0		
	1000	TYKW	28	PRE	0246.0	0253.3	10.0	12.0	4.0		
	2695	MANI	47	GB	0246.4	0309.3	261.6	2080.0	760.0		
	4995	MANI	47	GB	0246.5	0308.6	249.5	8000.0	3519.0		
	4995	PALE	49	GB	0246.8	0247.8	58.0	51.0			QL=6 ST=2 TYP=6
	17000	NOBE	28	PRE	0247.0	0248.0	9.8	12.0			L

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
07	9395	PEKG	5	S	0247.0	0248.2	4.0	40.0	5.6		
	2840	PEKG	1	S	0247.0	0248.2	4.0	13.0	1.2		
	8800	MANI	47	GB	0247.0	0308.5	249.0	5600.0	2334.0		
	8800	PALE	47	GB	0247.1	0247.8	2.0	91.0			QL=6 ST=2 TYP=5
	2695	PALE	8	S	0247.8	0247.8	1.0	16.0			QL=6 ST=2 TYP=3
	1415	MANI	47	GB	0250.5	0433.8	259.5	1400.0	520.0		
	9395	PEKG	47	GB	0251.0	0308.5	67.0	3575.0	354.4		
	1415	PALE	4	S/F	0251.1	0253.1	10.0	17.0			QL=6 ST=2 TYP=3
	2840	PEKG	47	GB	0254.0	0309.5	67.5	1783.0	182.9		
	2930	VORO	42	SER	0255.0	0305.0	65.0	389.0			
	9400	TYKW	47	GB	0256.0	0308.2	48.0	4630.0	660.0		
	3750	TYKW	47	GB	0256.0	0308.6	48.0	3630.0	450.0		
	1000	TYKW	47	GB	0256.0	0309.2	45.0	1030.0	170.0D		
	2000	TYKW	47	GB	0256.0	0309.5	48.0	1600.0	240.0		
	500	HIRA	48	C	0256.6	0307.6	44.0	300.0	100.0		WL
	245	PALE	47	GB	0256.8	0257.3	1.0	200.0			QL=6 ST=2 TYP=5
	17000	NOBE	47	GB	0256.8	0308.2	38.0	2400.0			L
	606	MANI	47	GB	0257.0	0425.5	193.0	1750.0	754.0		
	15400	PALE	49	GB	0257.1	0259.3	45.0	88.0			QL=6 ST=2 TYP=6
	35000	NAGO	47	GB	0258.0	0308.0	14.0	1100.0			
	610	PALE	49	GB	0258.6	0258.8	26.0	32.0			QL=6 ST=2 TYP=6
	410	PALE	47	GB	0301.5	0309.5	27.0	169.0			QL=6 ST=2 TYP=5
	200	HIRA	48	C	0302.0	0307.7	140.0	460.0	34.0		0
	200	HIRA			0302.0	0416.5		62.0			0
	100	HIRA	48	C	0307.0		60.0	10000.0D	730.0		
	17000	NOBE	29	PBI	0334.8	0334.8	30.0	66.0			0
	1000	TYKW	30	PBI	0341.0		270.0D	15.0	10.0D		
	1000	TYKW	28	PRE	0342.5	0347.3	215.0	90.0	30.0		
	9400	TYKW	30	PBI	0344.0		270.0D	66.0	40.0D		
	2000	TYKW	30	PBI	0344.0		265.0D	34.0	21.0D		
	3750	TYKW	30	PBI	0344.0		270.0D	62.0	38.0D		
	2000	TYKW	28	PRE	0344.5	0347.5	19.5	56.0	25.0		
	3750	TYKW	5	S	0344.5	0348.7	15.0	16.0	7.0D		
	2695	PALE	4	S/F	0346.5	0346.8	3.0	31.0			QL=6 ST=2 TYP=3
	1415	PALE	47	GB	0346.5	0348.1	7.0	90.0			QL=6 ST=2 TYP=5
	610	PALE	20	GRF	0346.5	0348.6	6.0	36.0			QL=6 ST=2 TYP=2
	245	PALE	47	GB	0352.3	0352.5	10.0	67.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	0356.5	0356.6	100.0	110.0			QL=6 ST=2 TYP=5
	3750	TYKW	47	GB	0404.0	0427.7	126.0	1500.0	430.0		
	9400	TYKW	47	GB	0404.0	0428.2	86.0	660.0	240.0		
	2840	PEKG	47	GB	0404.0	0428.5	133.0	1458.0	327.9		
	2000	TYKW	47	GB	0404.0	0431.5	146.0	1830.0	530.0		
	1000	TYKW	47	GB	0404.0	0436.1	146.0	1430.0	450.0		
	500	HIRA	48	C	0404.8	0437.2	100.0	600.0	300.0		0
	610	PALE	49	GB	0410.8	0414.8	16.0	210.0			QL=6 ST=2 TYP=6
	410	PALE	47	GB	0410.8	0414.8	16.0	67.0			QL=6 ST=2 TYP=5
	9395	PEKG	47	GB	0411.0	0427.5	68.0	551.0			
	100	HIRA	27	RF	0411.0	0435.0	44.0	52.0	14.0		WL
	1415	PALE	49	GB	0411.6	0414.8	15.0	169.0			QL=6 ST=2 TYP=6
	2695	PALE	47	GB	0412.3	0412.8	14.0	64.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	0412.5	0414.8	14.0	36.0			QL=6 ST=2 TYP=5
	17000	NOBE	3	S	0412.7	0427.8	57.7	194.0			L
	15400	PALE	47	GB	0417.8	0418.3	9.0	119.0			QL=6 ST=2 TYP=5
	35000	NAGO	20	GRF	0418.0	0427.0	26.0	100.0			
	610	PALE	49	GB	0426.1	0426.6	5.0	1300.0			QL=6 ST=2 TYP=6
	2695	PALE	47	GB	0426.1	0426.8	5.0	370.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	0426.1	0427.3	5.0	230.0			QL=6 ST=2 TYP=5
	410	PALE	49	GB	0426.1	0428.3	5.0	410.0			QL=6 ST=2 TYP=6
	1415	PALE	49	GB	0426.1	0428.6	5.0	880.0			QL=6 ST=2 TYP=6
	1415	ATHN	49	GB	0449.0E	0451.5	39.0D	1899.0			QL=4 ST=3 TYP=6
	8800	ATHN	49	GB	0449.0E	0455.3	33.0D	920.0			QL=4 ST=3 TYP=6
	2695	ATHN	49	GB	0449.0E	0455.3	35.0D	1100.0			QL=4 ST=3 TYP=6
	950	GORK			0457.0E		223.0D				
	17000	NOBE	29	PBI	0510.4	0510.4	35.0	42.0			0
	9100	GORK			0517.0E		70.0D				
	2950	GORK	20	GRF	0518.1E	0521.0	153.0D	78.0			
	650	GORK			0519.0E	0519.0	152.0D	140.0			
	9400	TYKW	29	PBI	0530.0		55.0	36.0	12.0		
	500	HIRA	29	PBI	0548.0	0548.0	65.0	60.0	20.0		0
	3750	TYKW	30	PBI	0610.0		60.0U	21.0	5.0U		INTERFERENCE

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
07	1000	TYKW	29	PBI	0630.0		80.0U	30.0	10.0		
	2000	TYKW	30	PBI	0630.0		90.0	24.0	10.0		
	2000	TYKW	5	S	0646.5	0647.1	1.5	3.0	1.0		
	3750	TYKW	5	S	0646.7	0647.1	1.0	4.0	1.5		
	410	LEAR	8	S	0727.8	0728.1	1.0	17.0			QL=6 ST=2 TYP=3
	204	IZMI	5	S	0828.5	0828.6	.7	180.0	100.0		
	410	LEAR	4	S/F	0925.1	0925.1	10.0	33.0			QL=6 ST=2 TYP=3
	2800	OTTA	21	GRF	1325.0	1425.0	100.0	5.2			
	2650	DWIN	4	S/F	1351.0	1353.0	3.0	90.0	40.0		
	245	SGMR	49	GB	1351.8	1352.0	2.0	1300.0			QL=6 ST=2 TYP=6
	234	POTS	4	S/F	1351.8	1352.9	1.8	2300.0	70.0		III
	19600	BERN	3	S	1351.8	1353.1	7.5	25.0			
	8400	BERN	46	C	1351.8	1353.1	7.5	104.0			
	2695	ATHN	47	GB	1351.8	1353.3	3.0	100.0			QL=5 ST=2 TYP=5
	8800	ATHN	4	S/F	1351.8	1353.3	3.0	46.0			QL=5 ST=2 TYP=3
	4995	ATHN	47	GB	1351.8	1353.3	3.0	86.0			QL=5 ST=2 TYP=5
	9400	HUAN	4	S/F	1351.9	1353.2	2.3	60.8	37.8		R
	2800	OTTA	3	S	1351.9	1353.2	5.0	93.0	23.0		
	113	POTS	41	F	1351.9	1357.5	7.5	1200.0	40.0		III/V
	4995	SGMR	47	GB	1352.0	1353.1	1.0	100.0			QL=6 ST=2 TYP=5
	9500	POTS	4	S/F	1352.0	1353.1	11.0	51.0			
	3000	POTS	3	S	1352.0	1353.4	4.0	90.0			
	1470	POTS	3	S	1352.0	1353.5	3.0	27.0			
	2695	SGMR	47	GB	1352.1	1353.3	2.0	100.0			QL=6 ST=2 TYP=5
	1415	ATHN	8	S	1352.1	1353.3	2.0	18.0			QL=5 ST=2 TYP=3
	930	BORD	3	S	1352.3	1352.4	3.7	18.0	5.0		
	8800	SGMR	47	GB	1352.3	1353.1	1.0	51.0			QL=6 ST=2 TYP=5
	15400	SGMR	8	S	1352.3	1353.1	2.0	40.0			QL=6 ST=2 TYP=3
	810	KRAK	3	S	1352.3	1353.4	2.5	12.0	6.0		
	430	KRAK	3	S	1352.3	1353.5	2.3	8.0	4.0		
	536	ONDR	7	C	1352.4	1354.2	4.9	21.0	6.0		
	610	SGMR	8	S	1352.5	1353.1	2.0	30.0			QL=6 ST=2 TYP=3
	33	UPIC	45	C	1352.5	1353.3	2.3				
	1415	SGMR	8	S	1352.5	1353.3	1.0	48.0			QL=6 ST=2 TYP=3
	29	UPIC	45	C	1352.5	1353.8	1.8				
	410	SGMR	8	S	1352.8	1353.3	1.0	24.0			QL=6 ST=2 TYP=3
	9400	HUAN	29	PBI	1354.2	1354.2	51.9	8.7	5.5		0
	127	TORN	47	GB	1356.5	1357.2	3.0	1100.0	550.0		
	808	ONDR	3	S	1452.7	1453.8	12.5	11.0	3.0		
	2800	OTTA	20	GRF	1548.0	1551.0	12.0	3.2	1.6		
	9400	HUAN	1	S	1610.7	1611.4	1.1	17.4	8.7		0
	2800	OTTA	1	S	1958.0	1959.0	2.0	6.6	3.3		
	410	SGMR	4	S/F	1958.6	1958.8	10.0	20.0			QL=6 ST=2 TYP=3
	2695	SGMR	8	S	1958.6	1959.1	1.0	41.0			QL=6 ST=2 TYP=3
	2695	PENT	2	S/F	2010.9	2012.0	3.0	6.6	2.2		
	3750	TYKW	5	S	2256.0	2257.0	15.0	2.0	1.0		
	410	LEAR	4	S/F	2257.1	2257.6	100.0	25.0			QL=6 ST=2 TYP=3
	3750	TYKW	21	GRF	2335.0	0026.0	100.0	7.0	4.0		
	9400	TYKW	5	S	2338.0	2341.0	10.0	3.0	1.0		
	3750	TYKW	5	S	2339.0	2341.0	10.0	5.0	1.5		
08	410	LEAR	43	NS	0352.6	1021.5	398.0D	50.0			QL=6 ST=2 TYP=1
	200	GORK	44	NS	0442.0E		379.0D		5.0		
	260	ONDR	44	NS	0732.0E	1412.0U	448.0D	16.0U			
	245	SGMR	43	NS	1450.5	1612.1	455.0D	100.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1720.0	1730.3	655.0D	48.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2344.3	0543.8		62.0			QL=6 ST=3 TYP=1
	3750	TYKW	5	S	0015.0	0017.0	6.0	10.0	2.0		
	9400	TYKW	5	S	0016.5	0017.0	3.0	10.0	2.0		
	8800	PALE	8	S	0016.6	0016.8	1.0	18.0			QL=6 ST=2 TYP=3
	4995	PALE	8	S	0016.6	0016.8	1.0	19.0			QL=6 ST=2 TYP=3
	4995	LEAR	8	S	0016.6	0017.0	2.0	11.0			QL=6 ST=2 TYP=3
	610	LEAR	4	S/F	0124.6	0124.6	100.0	19.0			QL=6 ST=2 TYP=3
	1000	TYKW	5	S	0136.5	0138.0	7.0	5.0	2.5		
	410	LEAR	4	S/F	0136.8	0138.0	5.0	4.0			QL=6 ST=2 TYP=3
	245	LEAR	4	S/F	0136.8	0139.3	6.0	41.0			QL=6 ST=2 TYP=3
	100	HIRA	41	F	0137.0	0137.5	.5	1400.0			WL
	3750	TYKW	5	S	0137.0	0138.2	21.0	5.0	2.0		
	2000	TYKW	5	S	0137.0	0138.3	7.0	6.0	3.0		
	610	LEAR	4	S/F	0137.0	0138.3	4.0	11.0			QL=6 ST=3 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
08	610	LEAR	8	S	0144.8	0145.0	1.0	13.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0144.8	0145.0	1.0	13.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0144.8	0145.0	1.0	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0210.6	0210.8	1.0	20.0			QL=6 ST=2 TYP=3
	1415	LEAR	47	GB	0220.0	0220.1	40.0	100.0			QL=6 ST=2 TYP=5
	3750	TYKW	5	S	0247.0	0248.6	5.0	3.0	1.0		
	1415	LEAR	4	S/F	0256.0	0256.1	400.0	20.0			QL=6 ST=2 TYP=3
	3750	TYKW	21	GRF	0400.0	0430.0	150.0	4.0	2.0		
	2000	TYKW	21	GRF	0400.0	0440.0	160.0	3.0	1.5		
	2000	TYKW	20	GRF	0505.0	0535.0	90.0	2.0	1.0		
	6100	KISV	27	RF	0506.0	0514.5	24.0	10.0			
	9400	TYKW	20	GRF	0510.0	0514.0	60.0	3.0	1.0		
	3750	TYKW	20	GRF	0510.0	0517.0	30.0	5.0	2.0		
	8800	LEAR	20	GRF	0511.5	0514.3	11.0	11.0			QL=6 ST=2 TYP=2
	4995	LEAR	20	GRF	0511.8	0514.6	10.0	10.0			QL=6 ST=2 TYP=2
	3750	TYKW	5	S	0547.0	0549.0	25.0	2.0	1.0		
	1000	TYKW	45	C	0627.0	0627.7	2.5	19.0	3.0		
	650	GORK	22	GRF	0718.8	0821.0	167.6	5.0			
	3750	TYKW	20	GRF	0733.0	0745.0	40.00	6.0	3.50		
	2000	TYKW	20	GRF	0733.0	0750.0	40.00	4.0	2.50		
	2950	GORK	20	GRF	0734.6	0757.0	120.0	7.6			
	610	LEAR	4	S/F	0739.1	0739.1	10.0	19.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0739.1	0739.3	703.2	42.0			QL=6 ST=2 TYP=3
	430	KRAK	42	SER	0801.5	0801.5	7.0	1000.00			
	430	KRAK			0801.5	0807.2		1000.00			
	810	KRAK	42	SER	0802.0	0802.0	6.6	95.0			
	810	KRAK			0802.0	0807.7		270.0			
	204	IZMI	8	S	0803.0	0803.0	.2	170.0	150.0		
	200	GORK	41	F	0833.0	0837.0	6.5	60.00			
	200	GORK			0833.0	0839.1		60.00			
	430	KRAK	42	SER	0833.6	0834.2	16.0	35.0			
	808	ONDR	8	S	1000.9	1000.9	.2	38.0			
	234	POTS	8	S	1008.8	1009.4	.9	625.0	200.0		
	430	KRAK	8	S	1020.8	1020.8	.2	170.0			
	536	ONDR	8	S	1021.6	1021.7	.2	14.0			
	930	BORD	8	S	1055.7	1055.7	.2	16.0	2.0		
	234	POTS	4	S/F	1144.8	1144.8	.2	240.0	60.0		
	430	KRAK	8	S	1201.4	1201.4	.2	11.0			
	2800	OTTA	21	GRF	1230.0	1420.0	320.0	16.6	8.6		
	430	KRAK	8	S	1246.2	1246.2	.2	58.0			
	8400	BERN	45	C	1303.5	1305.2	16.0	29.0			
	9400	HUAN	23	GRF	1303.6	1306.4	93.9	16.8	4.0		L
	2800	OTTA	1	S	1304.0	1307.0	6.0	7.0	3.5		
	9500	POTS	22	GRF	1304.0	1313.5	21.0	17.0			
	4995	SGMR	4	S/F	1304.3	1306.6	3.0	31.0			QL=6 ST=2 TYP=3
	2695	SGMR	4	S/F	1304.6	1306.6	5.0	18.0			QL=6 ST=2 TYP=3
	8800	SGMR	4	S/F	1304.6	1306.6	3.0	31.0			QL=6 ST=3 TYP=3
	9400	HUAN	1	S	1312.8	1313.3	1.8	15.2	7.8		0
	1470	POTS	4	S/F	1403.0	1403.4	1.0	12.0			
	1470	POTS	4	S/F	1426.0	1426.1	1.5	32.0			
	113	POTS	4	S/F	1426.5	1426.6	.1	100.0	25.0		III
	930	BORD	41	F	1543.0	1543.0	1.0	23.0	2.0		
	9400	HUAN	32	ABS	1735.0	1815.0	73.6	-6.7	-5.1		0
	2800	OTTA	21	GRF	1820.0	2100.0	360.0	23.0	11.5		
	2800	OTTA	4	S/F	1941.0	1947.8	10.0	17.2	7.6		
	4995	PALE	47	GB	1942.3	1944.3	7.0	40.0			QL=6 ST=2 TYP=5
	1415	SGMR	4	S/F	1943.1	1944.1	10.0	24.0			QL=6 ST=2 TYP=3
	2695	PALE	4	S/F	1943.3	1944.3	7.0	23.0			QL=6 ST=2 TYP=3
	8800	PALE	47	GB	1943.3	1944.3	5.0	30.0			QL=6 ST=2 TYP=5
	9400	HUAN	2	S/F	1945.5	1947.0	4.1	25.3	10.8		L
	15400	PALE	8	S	1949.8	1950.8	1.0	22.0			QL=6 ST=2 TYP=3
	9400	HUAN	28	PRE	2002.0	2010.8	8.8	28.6	6.3		L
	2800	OTTA	45	C	2007.0	2013.0	25.0	138.0	29.0		
	4995	SGMR	47	GB	2010.0	2013.3	19.0	100.0			QL=6 ST=3 TYP=5
	9400	HUAN	45	C	2010.8	2017.9	10.0	389.0	134.8		L
	2695	SGMR	47	GB	2011.3	2013.1	11.0	68.0			QL=6 ST=2 TYP=5
	8800	SGMR	47	GB	2011.5	2013.1	18.0	119.0			QL=6 ST=3 TYP=5
	15400	SGMR	47	GB	2012.3	2013.1	17.0	64.0			QL=6 ST=2 TYP=5
	1415	SGMR	4	S/F	2015.1	2018.1	5.0	44.0			QL=6 ST=2 TYP=3
	9400	HUAN	29	PBI	2020.8	2020.8	90.2	72.4	10.4		L

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
08	9400	TYKW	20	GRF	2140.0E	2140.0U	350.0D	27.0D	14.0D		
	2000	TYKW	21	GRF	2140.0E	2140.0U	350.0D	16.0D	8.0D		
	3750	TYKW	21	GRF	2140.0E	2140.0U	350.0D	150.0D	80.0D		
	1000	TYKW	21	GRF	2140.0E	2140.0U	280.0D	4.0D	2.0D		
	3750	TYKW	20	GRF	2352.0	0004.0	45.0	2.0	1.0		
09	260	ONDR	44	NS	0734.0E	1400.0U	441.0D	19.0U			
	245	PALE	43	NS	1720.0	0253.6	650.0D	31.0			QL=6 ST=2 TYP=1
	1000	TYKW	45	C	0159.0	0159.3	2.0	32.0	7.0		
	100	HIRA	46	C	0301.7	0306.3	11.0	3100.0	200.0		0
	200	HIRA	46	C	0303.4	0307.8	8.0	150.0	36.0		WR
	410	LEAR	47	GB	0304.3	0307.8	6.0	60.0			QL=6 ST=2 TYP=5
	245	LEAR	47	GB	0304.3	0309.8	7.0	390.0			QL=6 ST=3 TYP=5
	500	HIRA	46	C	0305.0	0307.0	3.4	25.0	6.0		MR
	1000	TYKW	45	C	0305.0	0307.7	5.0	8.0	2.5		
	3750	TYKW	5	S	0305.0	0308.0	20.0	3.0	1.0		
	245	PALE	49	GB	0305.1	0307.0	5.0	210.0			QL=6 ST=2 TYP=6
	410	PALE	47	GB	0306.1	0308.1	2.0	90.0			QL=6 ST=2 TYP=5
	2000	TYKW	5	S	0308.0E	0308.0U	6.0D	4.0D	1.5D		
	610	LEAR	4	S/F	0506.6	0506.6	100.0	43.0			QL=6 ST=2 TYP=3
	2000	TYKW	20	GRF	0520.0	0534.0	40.0	3.0	1.0		
	3750	TYKW	20	GRF	0526.0	0544.0	45.0	2.0	1.0		
	3750	TYKW	45	C	0623.0	0625.7	13.0	2.0	1.0		
	234	POTS	8	S	0649.9	0650.0	.2	100.0	30.0		III
	204	IZMI	8	S	0650.0	0650.0	.2	86.0	20.0		
	113	POTS	4	S/F	0650.0	0650.1	.5	100.0	10.0		III
	410	LEAR	8	S	0712.3	0712.8	1.0	18.0			QL=6 ST=2 TYP=3
	100	HIRA	42	SER	0721.0	0721.0	7.3	430.0			WR
	113	POTS	4	S/F	0721.0	0721.1	6.8	250.0	20.0		III
	200	HIRA	42	SER	0721.5	0723.0	10.0	70.0			WR
	2840	PEKG	20	GRF	0803.0	0806.5	20.0	1.7	.8		
	430	KRAK	8	S	0826.2	0826.2	.3	64.0			
	3100	CRIM	26	FAL	1058.0	1236.0		8.0			
	430	KRAK	8	S	1252.6	1252.6	.2	26.0			
	2800	OTTA	20	GRF	1400.0	1435.0	80.0	2.8	1.4		
	2800	OTTA	20	GRF	1710.0	1740.0	60.0	2.4	1.2		
	2800	OTTA	20	GRF	2110.0	2115.0	40.0	2.0	1.0		
	2695	PENT	1	S	2313.0	2314.0	2.5	6.2	3.1		
	15400	LEAR	4	S/F	2344.3	2344.6	10.0	13.0			QL=1 ST=3 TYP=3
10	245	LEAR	43	NS	0039.0	0600.1	589.0D	160.0			QL=6 ST=2 TYP=1
	260	ONDR	44	NS	0711.0E	1358.0U	473.0D	18.0U			
	9400	TYKW	20	GRF	0030.0	0049.0	100.0	5.0	2.0		
	3750	TYKW			0250.0	0259.8		88.0			
	3750	TYKW	45	C	0250.0	0304.2	20.0	90.0	25.0D		
	1000	TYKW	45	C	0252.0	0259.4	24.0	60.0	15.0D		
	2000	TYKW	45	C	0255.0	0259.9	20.0	96.0	40.0D		
	2930	VORO	42	SER	0255.0	0300.0	20.0	115.0			
	9400	TYKW	45	C	0255.0	0304.0U	50.0	40.0D	24.0D		
	2000	TYKW			0255.0	0304.2		91.0			
	2695	LEAR	47	GB	0256.0	0259.3	21.0	110.0			QL=6 ST=3 TYP=5
	2840	PEKG	45	C	0256.0	0259.7	19.0D	122.0	22.9		
	610	LEAR	47	GB	0256.1	0258.8	19.0	57.0			QL=6 ST=3 TYP=5
	1415	LEAR	47	GB	0256.1	0259.3	20.0	57.0			QL=6 ST=3 TYP=5
	2695	MANI	46	C	0256.5	0300.0	19.0	120.0	40.0		
	4995	MANI	46	C	0256.5	0304.7	16.5	130.2	43.4		
	1415	MANI	40	F	0256.5	0307.0	19.0	51.8	17.3		
	4995	LEAR	47	GB	0256.6	0259.6	22.0	97.0			QL=6 ST=3 TYP=5
	500	HIRA	46	C	0256.7	0303.9	17.0	60.0	14.0		ML
	8800	LEAR	47	GB	0256.8	0300.0	24.0	40.0			QL=6 ST=3 TYP=5
	410	LEAR	47	GB	0256.8	0300.0	19.0	40.0			QL=6 ST=3 TYP=5
	15400	LEAR	4	S/F	0256.8	0300.8	24.0	20.0			QL=6 ST=3 TYP=3
	9395	PEKG	45	C	0257.0	0304.3	33.0	44.0	15.2		
	606	MANI	22	GRF	0257.0	0306.6	11.3	24.9	8.3		
	208	VORO	4	S/F	0258.0	0259.5	2.0D	59.0			
	610	LEAR	47	GB	0258.3	0258.8	10.0	57.0			QL=6 ST=2 TYP=5
	200	HIRA	46	C	0258.3	0259.3	62.0	110.0	6.0		0
	1415	LEAR	47	GB	0258.3	0259.3	10.0	57.0			QL=6 ST=2 TYP=5
	2695	LEAR	47	GB	0258.3	0259.3	10.0	110.0			QL=6 ST=2 TYP=5
	8800	MANI	22	GRF	0258.5	0304.7	9.2	57.6	19.2		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
10	100	HIRA	46	C	0258.6	0304.9	31.0	200.0	15.0		WL
	610	PALE	47	GB	0258.8	0259.0	9.0	50.0			QL=6 ST=2 TYP=5
	245	LEAR	47	GB	0258.8	0259.1	21.0	67.0			QL=6 ST=3 TYP=5
	245	PALE	47	GB	0259.0	0259.1	3223.2	72.0			QL=6 ST=2 TYP=5
	410	PALE	4	S/F	0259.1	0300.8	8.0	32.0			QL=6 ST=2 TYP=3
	8800	PALE	4	S/F	0259.6	0259.8	6.0	27.0			QL=6 ST=2 TYP=3
	17000	NOBE	20	GRF	0259.7	0320.7	60.0	28.0			0
	35000	NAGO	20	GRF	0306.0	0322.0	64.0	20.0			
	2695	PALE	8	S	0311.1	0311.1	1.0	27.0			QL=6 ST=2 TYP=3
	4995	PALE	8	S	0311.1	0312.1	2.0	22.0			QL=6 ST=2 TYP=3
	1415	PALE	8	S	0311.1	0313.1		21.0			QL=6 ST=2 TYP=3
	2000	TYKW	30	PBI	0315.0		115.0	8.0	4.0		
	3750	TYKW	30	PBI	0315.0		200.0	22.0	10.0		
	1000	TYKW	30	PBI	0316.0		70.0	1.5	.7		
	3750	TYKW	5	S	0323.0	0323.6	2.0	2.0	.7		
	2000	TYKW	5	S	0323.0	0323.7	1.5	3.0	.7		
	1000	TYKW	45	C	0323.0	0323.9	1.5	8.0	2.5		
	3750	TYKW	5	S	0338.5	0340.2	5.5	5.0	2.0		
	9400	TYKW	29	PBI	0345.0		80.0	16.0	6.0		
	3750	TYKW	5	S	0348.0U	0349.5	15.0U	5.0	2.0		
	3750	TYKW	5	S	0425.5	0426.5	3.5	2.0	.7		
	610	LEAR	4	S/F	0514.1	0514.3	100.0	18.0			QL=6 ST=2 TYP=3
	3100	CRIM	26	FAL	0636.0	0900.0		5.0			
	100	GORK	41	F	0749.5	0752.4	16.0	35.0			
	100	GORK			0749.5	0803.9		205.0			
	100	GORK			0749.5	0804.5		240.0D			
	100	GORK			0749.5	0806.0		45.0			
	200	GORK	4	S/F	0800.0	0805.3	6.4	60.0D			
	113	POTS	4	S/F	0803.0	0804.5	2.8	300.0	5.0		III
	204	IZMI	41	F	0804.0	0818.3	24.0	132.0			
	245	LEAR	47	GB	0805.1	0805.3	210.0	50.0			QL=6 ST=2 TYP=5
	3100	CRIM	1	S	1021.0	1022.1	3.0	8.0	3.0		
	33	UPIC	42	SER	1206.5	1222.3	48.8				
	29	UPIC	42	SER	1206.5	1222.5	49.0				
	127	TORN	47	GB	1221.0	1222.3	2.5	800.0	400.0		
	113	POTS	42	SER	1221.4	1222.4	4.0	500.0	5.0		III
	3000	POTS	3	S	1221.5	1222.5	2.5	12.0			
	1470	POTS	3	S	1222.0	1222.3	1.0	6.0			
	2650	DWIN	1	S	1230.0	1232.0	3.0	10.0	6.0		
	245	SGMR	8	S	1254.3	1254.6	1.0	119.0			QL=6 ST=2 TYP=3
	113	POTS	4	S/F	1329.8	1331.9	2.5	420.0	15.0		III
	536	ONDR	8	S	1339.3	1339.4	.2	59.0			
	930	BORD	8	S	1534.2	1534.2	.2	28.0	2.0		
	930	BORD	41	F	1539.4	1539.4	.4	16.0	2.0		
	2800	OTTA	21	GRF	1655.0	1708.0	175.0	8.4	3.0		
	1415	PALE	47	GB	1836.0	1844.6	8.6D	53.0			QL=6 ST=2 TYP=5
	2800	OTTA	4	S/F	1844.5	1845.4	2.5	93.0	40.0		
	4995	PALE	47	GB	1844.5	1845.8	3.0	53.0			QL=6 ST=2 TYP=5
	245	SGMR	49	GB	1844.8	1845.1	3.0	800.0			QL=6 ST=2 TYP=6
	2695	PALE	47	GB	1844.8	1845.6	3.0	139.0			QL=6 ST=2 TYP=5
	2695	SGMR	47	GB	1845.0	1845.6	1.0	130.0			QL=6 ST=2 TYP=5
	1415	SGMR	8	S	1845.0	1846.0	1.0	50.0			QL=6 ST=2 TYP=3
	9400	HUAN	2	S/F	1845.1	1845.7	2.0	23.8	13.3		0
	8800	PALE	8	S	1845.1	1845.8	2.0	40.0			QL=6 ST=2 TYP=3
	8800	SGMR	4	S/F	1845.5	1845.6	180.0	30.0			QL=6 ST=2 TYP=3
	410	SGMR	8	S	1845.5	1846.0	1.0	21.0			QL=6 ST=2 TYP=3
	4995	SGMR	8	S	1845.6	1845.8	1.0	39.0			QL=6 ST=2 TYP=3
	2800	OTTA	29	PBI	1847.0	1847.0	13.0	3.8	1.9		
	9400	HUAN	29	PBI	1847.1	1847.1	13.5	7.9	4.8		0
11	260	ONDR	44	NS	1203.0E	1408.0U	184.0D	11.0U			
	245	PALE	43	NS	1705.0	0015.6	665.0D	850.0			QL=6 ST=2 TYP=1
	9395	PEKG	1	S	0155.0	0159.3	8.0	9.2	3.1		
	3750	TYKW	5	S	0203.0	0204.0	15.0	1.5	.7		
	3750	TYKW	5	S	0254.0	0255.2	3.0	6.0	3.0		
	9400	TYKW	5	S	0254.5	0255.0	2.5	5.0	1.5		
	2000	TYKW	5	S	0254.7	0255.2	1.0	3.0	1.0		
	3750	TYKW	29	PBI	0257.0		9.0	2.0	1.0D		
	2000	TYKW	21	GRF	0317.0	0340.0	100.0	2.0	1.0		
	3750	TYKW	21	GRF	0317.0	0350.0	105.0	3.5	2.0		

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11	2000	TYKW	45	C	0318.0	0320.5	4.0	7.0	1.0		
	3750	TYKW	45	C	0318.0	0320.5	3.0	5.0	1.5		
	1415	LEAR	8	S	0318.8	0318.8	1.0	24.0			QL=6 ST=2 TYP=3
	410	LEAR	49	GB	0403.1	0403.1	100.0	850.0			QL=6 ST=3 TYP=6
	2000	TYKW	5	S	0424.0	0427.0	10.0	2.0	1.0		
	2000	TYKW	21	GRF	0535.0	0550.0	60.0	2.0	1.0		
	1000	TYKW	5	S	0613.0	0614.2	4.0	6.0	2.0		
	2000	TYKW	5	S	0613.0	0614.3	2.0	11.0	2.0		
	100	GORK	4	S/F	0613.2	0613.6	3.0	95.0			
	950	GORK	1	S	0613.2	0614.3	7.0	5.5	3.0		
	610	LEAR	4	S/F	0613.3	0614.1	5.0	8.0			QL=6 ST=2 TYP=3
	650	GORK	20	GRF	0613.3	0614.7	12.5	3.0			
	410	LEAR	20	GRF	0613.3	0615.6	5.0	6.0			QL=6 ST=2 TYP=2
	1415	LEAR	4	S/F	0613.6	0614.1	4.0	11.0			QL=6 ST=2 TYP=3
	2695	LEAR	8	S	0613.8	0614.1	1.0	38.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0613.8	0614.2	1.0	3.0	1.0		
	200	GORK	2	S/F	0614.0	0614.3	1.3	4.0			
	2950	GORK	3	S	0614.1	0614.4	1.5	30.0			
	2000	TYKW	29	PBI	0615.0		7.0	2.0	1.0		
	8800	ATHN	4	S/F	0635.6	0637.8	3.0	46.0			QL=2 ST=2 TYP=3
	33	UPIC	45	C	0831.5	0833.3	2.5				
	29	UPIC	45	C	0831.6	0833.5	2.2				
	113	POTS	41	F	0831.9	0833.4	3.0	200.0	80.0		III
	204	IZMI	4	S/F	0833.3	0833.4	.4	160.0	120.0		
	245	LEAR	8	S	0938.8	0938.8	1.0	30.0			QL=3 ST=2 TYP=3
	245	SGMR	20	GRF	1250.0	1325.5	67.0	34.0			QL=6 ST=3 TYP=2
	234	POTS	4	S/F	1337.3	1337.6	.8	200.0	50.0		
	9400	HUAN	20	GRF	1641.0	1648.0	21.8	5.1	2.5		0
	15400	SGMR	4	S/F	1817.8	1820.1	12.0	41.0			QL=6 ST=2 TYP=3
	100	HIRA	46	C	2246.6	2248.0	3.0	460.0	150.0		WL
	2000	TYKW	20	GRF	2325.0	0020.0	140.0	4.0	2.0		
	3750	TYKW	20	GRF	2325.0	0020.0	150.0	5.0	2.5		
	245	LEAR	4	S/F	2336.0	2336.1	10.0	28.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	2336.0	2336.1	50.0	18.0			QL=6 ST=2 TYP=3
12	260	ONDR	44	NS	0717.0E	1408.0U	475.0D	13.0U			
	127	TORN	43	NS	1040.0		180.0D		1.0		VO
	245	SGMR	43	NS	1824.0	1858.5	241.0D	189.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2052.0E	0508.0	710.0D	10.0	5.0		WL
	245	LEAR	43	NS	2241.0	0929.8	704.0D	63.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.0D		3.0		
	245	LEAR	49	GB	0015.3	0015.6	1.0	670.0			QL=6 ST=2 TYP=6
	245	LEAR	4	S/F	0040.3	0040.5	10.0	20.0			QL=6 ST=2 TYP=3
	2840	PEKG	1	S	0143.0	0145.5	5.0	2.7	.1		
	204	IZMI	41	F	0709.5	0710.2	1.0	130.0			
	245	LEAR	47	GB	0710.1	0710.5	100.0	81.0			QL=6 ST=2 TYP=5
	245	LEAR	47	GB	0737.0	0738.1	2.0	60.0			QL=6 ST=2 TYP=5
	245	LEAR	47	GB	0742.3	0742.3	20.0	110.0			QL=6 ST=2 TYP=5
	204	IZMI	41	F	0818.5	0818.6	1.5	100.0			
	245	LEAR	47	GB	0818.5	0818.6	200.0	68.0			QL=6 ST=2 TYP=5
	204	IZMI	42	SER	0844.0	0847.0	17.5	120.0			
	6100	KISV	21	GRF	0949.7	0952.5	7.0	5.0			
	430	KRAK	8	S	1127.5	1127.5	.2	7.0			
	810	KRAK	8	S	1127.5	1127.5	.2	8.0			
	430	KRAK	8	S	1143.8	1143.8	.6	23.0			
	930	BORD	41	F	1314.0	1314.1	.3	28.0	2.0		
	930	BORD	41	F	1435.6	1435.7	.1	17.0	1.0		
	113	POTS	4	S/F	1446.4	1447.5	1.6	450.0	80.0		III/V
	2800	OTTA	20	GRF	1810.0	1905.0	150.0	3.6	1.8		
	245	SGMR	4	S/F	1858.3	1858.5	2410.0	189.0			QL=6 ST=2 TYP=3
13	200	GORK	44	NS	0448.0E		380.0D		10.0		
	260	ONDR	44	NS	0742.0E	1423.0U	439.0D	24.0U			
	127	TORN	43	NS	0810.0		336.0D		1.0		VO
	245	SGMR	43	NS	1120.0	1420.6	666.0D	61.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2051.0E	0029.0	710.0D	20.0	10.0		ML
	245	PALE	43	NS	2227.0	0054.0	343.0D	25.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2242.0	1024.1	703.0D	46.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.0D		6.0		
	245	LEAR	8	S	0906.3	0906.8	1.0	27.0			QL=6 ST=2 TYP=3

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13	410	LEAR	8 S	0906.6	0906.6	1.0	20.0			QL=6 ST=2 TYP=3
	610	LEAR	8 S	0951.5	0951.8	1.0	10.0			QL=5 ST=2 TYP=3
	1415	LEAR	4 S/F	0951.6	0951.8	3.0	20.0			QL=5 ST=2 TYP=3
	2695	LEAR	8 S	0951.8	0951.8	1.0	31.0			QL=5 ST=2 TYP=3
	4995	LEAR	8 S	0951.8	0951.8	1.0	20.0			QL=5 ST=2 TYP=3
	8800	LEAR	8 S	0951.8	0951.8	1.0	30.0			QL=5 ST=2 TYP=3
	245	LEAR	4 S/F	0952.0	0952.1	10.0	7.0			QL=5 ST=2 TYP=3
	930	BORD	46 C	0953.0	0954.6	2.7	142.0	9.0		
	430	KRAK	8 S	0958.4	0958.4	.2	6.0			
	430	KRAK	8 S	1028.9	1028.9	.2	26.0			
	430	KRAK	8 S	1031.5	1031.5	.2	18.0			
	430	KRAK	42 SER	1116.0	1116.2	56.0U	28.0			
	930	BORD	46 C	1119.0	1122.9	5.4	28.0	5.0		
	127	TORN	7 C	1236.4	1236.8	1.5	90.0	40.0		
	29	UPIC	45 C	1243.3		1.5				
	33	UPIC	45 C	1243.4	1243.5	.8				
	9500	POTS	20 GRF	1252.0	1257.5	48.0				
	2800	OTTA	240AR	1252.0	1302.0	10.0	5.4			
	9400	HUAN	4 S/F	1252.4	1254.9	7.7	24.9	14.3		L
	3000	POTS	29 PBI	1252.5	1254.7	38.0	25.0			
	2800	OTTA	45 C	1252.5	1254.8	8.5	22.0	5.5		
	1470	POTS	29 PBI	1252.5	1254.8	63.0	65.0			
	6100	KISV		1252.6	1253.5		12.0			
	8800	SGMR	4 S/F	1252.6	1254.6	5.0	22.0			QL=6 ST=2 TYP=3
	6100	KISV	46 C	1252.6	1254.7	9.0	13.0			
	6100	KISV		1252.6	1255.1		13.0			
	6100	KISV		1252.6	1257.6		12.0			
	15000	KISV	21 GRF	1253.0	1255.2	10.0	17.0			
	4995	SGMR	8 S	1253.1	1254.6	2.0	21.0			QL=6 ST=2 TYP=3
	2695	SGMR	8 S	1253.3	1254.6	2.0	27.0			QL=6 ST=2 TYP=3
	1415	SGMR	47 GB	1253.3	1254.8	2.0	86.0			QL=6 ST=2 TYP=5
	810	KRAK	42 SER	1253.3	1255.7	13.7	86.0			
	610	SGMR	4 S/F	1254.5	1254.6	20.0	50.0			QL=6 ST=2 TYP=3
	410	SGMR	8 S	1254.6	1255.0	1.0	16.0			QL=6 ST=2 TYP=3
	536	ONDR	8 S	1254.7	1254.9	.6	42.0			
	430	KRAK	42 SER	1255.1	1255.7	23.0	110.0			
	430	KRAK		1255.1	1317.2		32.0			
	9400	HUAN	29 PBI	1300.1	1300.1	15.2	10.0	6.4		0
	536	ONDR	40 F	1306.3	1306.4	2.0	8.0	2.0		
	810	KRAK	8 S	1334.2	1334.2	.2	10.0			
	430	KRAK	8 S	1334.3	1334.3	.2	15.0			
	2650	DWIN	2 S/F	1353.0	1355.0	3.0	30.0	15.0		
	808	ONDR	7 C	1353.8	1355.2	9.7	85.0	4.0		
	9400	HUAN	20 GRF	1416.2	1421.2	14.0	8.3	3.1		0
	536	ONDR	40 F	1419.3	1419.8	4.0	10.0	4.0		
	808	ONDR	40 F	1420.5	1422.1	4.0	19.0	9.0		
14	200	GORK	44 NS	0455.0E		380.0D		20.0		
	204	IZMI	43 NS	0600.0		360.0D	30.0			
	260	ONDR	44 NS	0744.0E	1446.0U	431.0D	15.0U			
	127	TORN	43 NS	0954.0	1403.1	306.0D	150.0	3.0		V1
	245	SGMR	43 NS	1118.0	1331.6	669.0D	130.0			QL=6 ST=2 TYP=1
	200	HIRA	44 NS	2049.0E	2120.0	710.0D	70.0	20.0		WR
	245	PALE	43 NS	2104.0	2114.3	421.0D	90.0			QL=5 ST=2 TYP=1
	208	VORO	44 NS	2300.0E		240.0D		16.0		
	245	LEAR	43 NS	2321.0	0717.8	663.0D	189.0			QL=6 ST=2 TYP=1
	3750	TYKW	5 S	0026.0	0027.0	3.0	3.0	1.0		
	245	PALE	8 S	0029.8	0030.1	1.0	23.0			QL=6 ST=2 TYP=3
	3750	TYKW	20 GRF	0100.0	0113.0	50.0	2.0	1.0		
	2000	TYKW	20 GRF	0230.0	0240.0	60.0	2.0	1.0		
	3750	TYKW	20 GRF	0230.0	0251.0	70.0	3.0	1.5		
	3750	TYKW	20 GRF	0420.0	0503.0	190.0	4.0	2.0		
	2000	TYKW	20 GRF	0420.0	0503.0	170.0	2.0	1.0		
	1415	LEAR	8 S	0755.6	0755.8	1.0	6.0			QL=6 ST=2 TYP=3
	4995	LEAR	8 S	0755.6	0755.8	1.0	8.0			QL=6 ST=2 TYP=3
	2695	LEAR	8 S	0755.6	0755.8	1.0	5.0			QL=6 ST=2 TYP=3
	8800	LEAR	8 S	0755.6	0755.8	1.0	11.0			QL=6 ST=2 TYP=3
	15400	LEAR	8 S	0755.6	0755.8	1.0	26.0			QL=6 ST=2 TYP=3
	430	KRAK	8 S	0813.7	0813.7	.3	14.0			
	536	ONDR	8 S	0832.9	0833.1	.3	13.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
14	430	KRAK	42	SER	0907.6	0927.9	21.0	64.0			
	6100	KISV	24	R	1030.0	1107.7	38.0	8.0			
	650	GORK	21	GRF	1055.9		16.1	1.5			
	2650	DWIN	2	S/F	1100.0U		1.0U	20.0	10.0		
	15000	KISV	21	GRF	1100.0	1108.5	18.0	26.0			
	650	GORK	46	C	1103.0	1104.1	6.2	45.0			
	650	GORK			1103.0	1108.4		13.0			
	536	ONDR	40		1103.6	1104.4	6.8	13.0	4.0		
	950	GORK	4	S/F	1103.9	1108.5	5.6	106.0			
	808	ONDR	7	C	1104.6	1109.0	5.7	111.0	13.0		
	810	KRAK	7	C	1105.0E	1107.7	3.6U	160.0	10.0U		
	430	KRAK	46	C	1105.0E	1108.0	3.7U	570.0D			
	1470	POTS	3	S	1106.5	1108.5	4.5	9.0			
	930	BORD	46	C	1107.0	1108.6	2.6	116.0	15.0		
	6100	KISV	45	C	1107.7	1108.4	4.0	14.0			
	9500	POTS	3	S	1107.8	1108.5	5.2				
	3000	POTS	3	S	1108.0	1108.9	2.0	11.0			
	430	KRAK	42	SER	1116.8	1124.0	14.0	47.0			
	9400	HUAN	1	S	1226.7	1230.0	6.3	5.1	2.7		0
	2800	OTTA	20	GRF	1355.0	1440.0	135.0	3.6	2.2		
	2800	OTTA	27A	RF	1740.0		172.0	2.8	2.4		
	2800	OTTA	24	R	1740.0	1800.0	20.0	2.8	1.4		
	2800	OTTA	24P	R	1800.0		120.0	2.8			
	2800	OTTA	1	S	1849.5	1850.0	4.0	2.4	1.2		
	245	PALE	4	S/F	1909.1	1909.3	10.0	20.0			QL=6 ST=2 TYP=3
	2800	OTTA	26	FAL	2000.0	2032.0	32.0	2.8	1.4		
	2800	OTTA	21	GRF	2035.0	2130.0	260.0D	14.2			
	245	PALE	49	GB	2052.8	2055.5	5.0	930.0			QL=6 ST=2 TYP=6
	245	SGMR	49	GB	2052.8	2056.3	5.0	800.0			QL=6 ST=2 TYP=6
	410	SGMR	4	S/F	2056.1	2056.6	10.0	23.0			QL=6 ST=2 TYP=3
	410	PALE	4	S/F	2058.3	2058.3	80.0	11.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	2104.0	2110.6	18.0	54.0			QL=6 ST=2 TYP=5
	410	PALE	8	S	2107.5	2109.1	2.0	20.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	2108.8	2109.0	1.0	17.0			QL=6 ST=2 TYP=3
	8800	PALE	4	S/F	2115.0	2115.1	20.0	36.0			QL=6 ST=2 TYP=3
	2695	PALE	4	S/F	2115.0	2115.1	30.0	23.0			QL=6 ST=2 TYP=3
	4995	PALE	4	S/F	2115.0	2115.1	30.0	26.0			QL=6 ST=2 TYP=3
	2800	OTTA	3	S	2115.0	2115.2	1.5	14.8	5.0		
	3750	TYKW	5	S	2302.0	2304.0	15.0	3.0	1.0		RAIN
15	200	GORK	44	NS	0428.0E		452.0D		40.0		
	204	IZMI	44	NS	0600.0E		360.0D	40.0			
	260	ONDR	44	NS	0744.0E	1404.0U	437.0D	8.0U			
	127	TORN	43	NS	0750.0		430.0D		4.0		V2
	245	SGMR	43	NS	1117.0	1623.1	671.0D	75.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1710.0	1759.1		130.0			QL=6 ST=3 TYP=1
	245	LEAR	43	NS	2242.0	0118.3	701.0D	139.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.0D		47.0		
	200	HIRA	44	NS	2348.0E	0030.0	570.0D	130.0	70.0		WL
	3750	TYKW	20	GRF	0020.0	0030.0	50.0	2.0	1.0		
	3750	TYKW	5	S	0252.0	0253.0	25.0	4.0	2.0		RAIN
	3750	TYKW	21	GRF	0322.0	0400.0	110.0	4.0	2.0		RAIN
	2000	TYKW	21	GRF	0335.0	0436.4	110.0	4.0	1.5		
	2000	TYKW	5	S	0358.0	0358.5	1.0	5.0	1.0		
	3750	TYKW	20	GRF	0432.0	0437.0	45.0	3.0	1.5		
	2950	GORK	20	GRF	0636.6	0650.6	34.0	9.0	4.5		
	3750	TYKW	5	S	0648.0	0650.6	20.0U	10.0	3.0		INTERFERENCE
	6100	KISV	2	S/F	0648.6	0650.6	6.0	10.0			
	9400	TYKW	5	S	0649.0	0650.6	10.0	7.0	2.0		RAIN
	2000	TYKW	5	S	0649.0	0650.7	3.0	4.0	2.0		
	9100	GORK	20	GRF	0649.0	1132.0	316.0D	20.0			
	4995	LEAR	4	S/F	0649.1	0650.5	3.0	13.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0649.1	0650.6	3.0	11.0			QL=6 ST=2 TYP=3
	2000	TYKW	29	PBI	0652.0		20.0	2.0	1.0		
	100	GORK	46	C	0657.0	0657.5	1.1	180.0D			
	100	GORK			0657.0	0657.8		180.0D			
	410	LEAR	4	S/F	0657.1	0657.5	10.0	17.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0657.1	0657.8	1.0	139.0			QL=6 ST=2 TYP=5
	2950	GORK	20	GRF	0733.0	0800.0	122.0	5.6			
	930	BORD	46	C	0801.0	0801.2	.5	81.0	5.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
15	9500	POTS	21	GRF	0906.0	0914.5	35.0				
	430	KRAK	42	SER	0911.9	0919.1	68.0	41.0			
	430	KRAK			0911.9	0950.3		29.0			
	245	LEAR	47	GB	0936.1	0936.5	10.0	82.0			QL=6 ST=2 TYP=5
	610	LEAR	4	S/F	0936.3	0936.5	10.0	11.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0936.3	0936.5	100.0	26.0			QL=6 ST=2 TYP=3
	930	BORD	8	S	1026.3	1026.4	.2	21.0	3.0		
	930	BORD	41	F	1104.0	1104.0	.3	29.0	2.0		
	2950	GORK	1	S	1112.6	1114.0	6.2	3.0	1.5		
	100	GORK	41	F	1114.3	1114.7	4.7	260.00			
	100	GORK			1114.3	1116.9		260.00			
	430	KRAK	42	SER	1115.3	1115.8	38.0	18.0			
	430	KRAK			1115.3	1132.1		22.0			
	650	GORK	2	S/F	1116.1	1117.1	3.3	4.0			
	950	GORK	1	S	1116.6	1116.8	.5	3.0			
	536	ONDR	8	S	1116.8	1117.0	1.3	10.0			
	113	POTS	4	S/F	1116.8	1117.2	.5	200.0	15.0		III
	6100	KISV	3	S	1131.5	1132.0	1.0	4.0			
	2950	GORK	1	S	1131.5	1132.1	1.5	3.0	1.5		
	100	GORK	41	F	1153.0	1153.2	.7	260.00			
	100	GORK			1153.0	1153.4			475.0		
	430	KRAK	8	S	1307.7	1307.7	.2	23.0			
	2800	OTTA	22	GRF	1325.0	1525.0	155.0	9.0			
	2800	OTTA	20	GRF	1635.0	1710.0	85.0	3.6			
	930	BORD	41	F	1654.2	1654.4	.4	14.0	2.0		
	2800	OTTA	240	R	1940.0	2230.0	170.0	11.6	4.0		
	2695	PENT	21	GRF	2320.0	2400.0	110.00	38.0			
	2000	TYKW	28	PRE	2325.0	2337.9	14.0	16.0	2.0		
	1000	TYKW	45	C	2332.0	2345.5	25.5	79.0	20.0		
	3750	TYKW	21	GRF	2335.0	0004.0	190.0	35.0	17.0		
	500	HIRA	24	R	2335.5	0031.0	540.00	30.0	15.0		MLMR
	9400	TYKW	21	GRF	2337.0	0004.0	175.0	40.0	20.0		
	2695	PENT	40	F	2337.0	2340.3	10.0	27.0			
	610	LEAR	4	S/F	2339.0	2339.3	17.0	13.0			QL=6 ST=2 TYP=3
	2000	TYKW	47	GB	2339.0	2340.3	8.0	1130.0	50.0		
	3750	TYKW	45	C	2339.0	2341.8	5.0	21.0	7.0		
	1415	MANI	40	F	2339.0	2343.3	15.7	193.5	64.5		
	245	LEAR	47	GB	2339.0	2344.8	17.0	52.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	2339.0	2355.6	17.0	16.0			QL=6 ST=2 TYP=3
	1415	LEAR	47	GB	2339.3	2340.0	17.0	189.0			QL=6 ST=2 TYP=5
	4995	MANI	4	S/F	2339.4	2341.0	4.6	72.6	24.2		
	8800	MANI	4	S/F	2339.4	2342.0	2.60	42.1	14.0		
	2695	PALE	4	S/F	2339.5	2340.3	13.0	44.0			QL=6 ST=2 TYP=3
	9400	TYKW	45	C	2339.5	2341.0	3.5	12.0	3.0		
	1415	PALE	47	GB	2339.6	2340.0	13.0	189.0			QL=6 ST=2 TYP=5
	4995	LEAR	47	GB	2339.6	2341.8	17.0	51.0			QL=6 ST=2 TYP=5
	2695	LEAR	4	S/F	2339.8	2340.3	17.0	42.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	2339.8	2340.5	17.0	30.0			QL=6 ST=2 TYP=3
	15400	LEAR	4	S/F	2339.8	2341.3	17.0	16.0			QL=6 ST=2 TYP=3
	4995	PALE	47	GB	2339.8	2341.8	13.0	50.0			QL=6 ST=2 TYP=5
	8800	PALE	4	S/F	2340.3	2341.8	12.0	28.0			QL=6 ST=3 TYP=3
	610	PALE	8	S	2343.6	2344.1	2.0	19.0			QL=6 ST=2 TYP=3
	15400	PALE	4	S/F	2345.5	2347.1	7.0	28.0			QL=6 ST=2 TYP=3
	2000	TYKW	30	PBI	2347.0		480.0	22.0	10.0		
	100	HIRA			2348.0	0021.6		330.0			ML
	100	HIRA	48	C	2348.0	2348.8	106.0	3000.0	90.0		WL
	8800	PALE	47	GB	2352.3	2353.8	11.0	74.0			QL=6 ST=2 TYP=5
	4995	PALE	20	GRF	2352.3	2354.1	11.0	44.0			QL=6 ST=2 TYP=2
	2695	PALE	20	GRF	2352.3	2354.3	11.0	37.0			QL=6 ST=2 TYP=2
	15400	PALE	4	S/F	2352.8	2353.1	11.0	39.0			QL=6 ST=2 TYP=3
	1415	PALE	8	S	2353.0	2353.3	1.0	44.0			QL=6 ST=2 TYP=3
	610	PALE	4	S/F	2353.6	2353.6	20.0	20.0			QL=6 ST=2 TYP=3
	2000	TYKW	45	C	2355.0	0000.5	15.0	8.0	2.0		
	1000	TYKW	30	PBI	2357.5		425.0	10.0	5.0		
	1000	TYKW			2358.0	0005.2		16.0			
	1000	TYKW			2358.0	0046.7		10.0			
	1000	TYKW	45	C	2358.0	0222.8	146.0	60.0	4.0		
16	410	LEAR	43	NS	0002.0	0914.8	621.00	98.0			QL=6 ST=2 TYP=1
	100	HIRA	43	NS	0135.0	0610.0	380.00	900.0	360.0		WL

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16	200	GORK	44	NS	0423.0E		458.0D		30.0		
	100	GORK	44	NS	0424.0E		444.0D		40.0		
	204	IZMI	44	NS	0600.0E		360.0D	50.0			
	127	TORN	44	NS	0700.0E	1115.8	480.0D	280.0	127.0		V1
	260	ONDR	44	NS	0726.0E	0835.0U	454.0D	17.0U			
	245	SGMR	43	NS	1118.0	1333.8	671.0D	160.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1712.0	0307.0	669.0D	210.0			QL=6 ST=2 TYP=1
	100	HIRA	44	NS	2046.0E	0230.0	715.0D	500.0	31.0		ML
	200	HIRA	44	NS	2046.0E	2230.0	715.0D	65.0	35.0		ML
	245	LEAR	43	NS	2243.0	0307.3	699.0D	180.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.0D		29.0		
	2000	TYKW	20	GRF	0012.0	0016.0	60.0	4.0	2.0		
	9400	TYKW	5	S	0016.3	0016.9	7.0	4.0	2.0		
	9400	TYKW	5	S	0156.0	0156.6	4.0	22.0	4.0		
	4995	LEAR	4	S/F	0156.1	0156.6	3.0	15.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0156.1	0156.6	2.0	10.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0156.1	0156.6	3.0	28.0			QL=6 ST=2 TYP=3
	610	LEAR	20	GRF	0204.3	0207.5	6.0	24.0			QL=6 ST=2 TYP=2
	410	LEAR	20	GRF	0204.8	0207.1	6.0	16.0			QL=6 ST=2 TYP=2
	610	PALE	4	S/F	0206.1	0207.6	200.0	26.0			QL=6 ST=2 TYP=3
	610	PALE	8	S	0211.8	0212.6	2.0	32.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0217.0	0218.8	3.0	11.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0218.6	0218.8	2.0	24.0			QL=6 ST=2 TYP=3
	610	PALE	8	S	0218.6	0218.8	1.0	36.0			QL=6 ST=2 TYP=3
	2000	TYKW	5	S	0218.6	0218.8	1.0	6.0	1.5		
	1000	TYKW	45	C	0228.0	0236.7	25.0	5.0	1.5		
	610	LEAR	20	GRF	0228.3	0234.1	9.0	13.0			QL=6 ST=2 TYP=2
	410	LEAR	20	GRF	0230.3	0234.1	6.0	18.0			QL=6 ST=2 TYP=2
	1000	TYKW	45	C	0305.0	0331.5	37.0	4.5	1.5		
	3750	TYKW	5	S	0317.0	0321.0	15.0	2.0	1.0		
	1000	TYKW	45	C	0348.0	0406.6	25.0	5.0	2.0		
	3750	TYKW	20	GRF	0354.0	0405.0	50.0	2.0	1.0		
	610	LEAR	20	GRF	0406.8	0410.6	8.0	39.0			QL=6 ST=2 TYP=2
	650	GORK	20	GRF	0457.0E	0509.6	400.0D	13.0			
	1000	TYKW	45	C	0459.0	0500.8	12.0	5.0	1.5		
	9100	GORK	20	GRF	0546.9	0621.4	53.0	6.0			
	1000	TYKW	45	C	0553.0	0557.3	15.0	5.0	1.0D		
	9100	GORK	22	GRF	0709.0	1139.5	300.0D	20.0			
	6100	KISV	3	S	0809.5	0809.8	1.0	6.0			
	430	KRAK	42	SER	0810.7	0817.8	42.0	41.0			
	430	KRAK			0810.7	0842.4		40.0			
	810	KRAK	8	S	0914.9	0914.9	.2	10.0			
	430	KRAK	8	S	0915.0	0915.0	.4	230.0			
	430	KRAK	42	SER	0930.8	0933.3	75.0	51.0			
	430	KRAK			0930.8	1041.0		76.0			
	2950	GORK	21	GRF	1025.0	1051.0	160.0D	5.0	2.5		
	2950	GORK	1	S	1119.1	1120.9	3.3	7.8	3.6		
	6100	KISV	2	S/F	1119.8	1120.8	2.0	5.0			
	2650	DWIN	1	S	1120.0	1121.0	2.0	10.0	5.0		
	6100	KISV	27	RF	1137.9	1139.7	17.0	15.0			
	430	KRAK	8	S	1148.1	1148.2	.3	39.0			
	430	KRAK	8	S	1220.9	1220.9	.2	43.0			
	2800	OTTA	20	GRF	1235.0	1250.0	40.0	4.0	2.2		
	536	ONDR	4	S/F	1250.8	1251.0	.8	318.0U	9.0		
	930	BORD	41	F	1353.3	1353.4	.6	124.0	3.0		
	536	ONDR	4	S/F	1354.5	1354.7	.8	34.0			
17	200	GORK	44	NS	0427.0E		450.0D		20.0		
	100	GORK	44	NS	0430.0E		450.0D		25.0		
	204	IZMI	43	NS	0600.0		360.0D	30.0			
	127	TORN	44	NS	0700.0E	0915.6	480.0D	1000.0	101.0		V0
	260	ONDR	44	NS	0711.0E	1340.0U	464.0D	40.0U			
	245	SGMR	43	NS	1115.0	1201.6		60.0			QL=6 ST=3 TYP=1
	245	PALE	44	NS	1701.0E	1956.0	676.0D	150.0			QL=6 ST=2 TYP=1
	100	HIRA	44	NS	2044.0E	0100.0	720.0D	300.0	190.0		SL
	200	HIRA	44	NS	2044.0E	0732.0	720.0D	55.0	35.0		WL
	245	LEAR	43	NS	2243.0	0717.3	698.0D	160.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.0D		24.0		
	2000	TYKW	20	GRF	0010.0	0020.0	50.0	2.0	1.0		
	3750	TYKW	20	GRF	0010.0	0020.0	50.0	3.0	1.5		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
17	410	LEAR	47	GB	0025.8	0026.5	1.0	219.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	0028.5	0028.6	10.0	11.0			QL=6 ST=2 TYP=3
	610	LEAR	47	GB	0105.3	0105.3	80.0	139.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	0105.3	0105.3	100.0	8.0			QL=6 ST=2 TYP=3
	15400	LEAR	4	S/F	0153.3	0155.6	3.0	10.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0153.3	0155.6	3.0	11.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0153.6	0154.0	3.0	57.0			QL=6 ST=2 TYP=5
	2695	MANI	3	S	0221.2	0221.5	.6	35.1	11.7		
	4995	MANI	3	S	0221.3	0221.5	.7	60.8	20.3		
	2000	TYKW	45	C	0238.0	0239.5	5.0	13.0	5.0		
	2000	TYKW			0238.0	0241.6		12.0			
	3750	TYKW	28	PRE	0238.5	0239.5	2.5	11.0	2.5		
	9400	TYKW	28	PRE	0239.0	0241.0	2.0	2.0	1.0		
	2840	PEKG	5	S	0239.0	0241.7	6.0	122.0	11.7		
	1415	LEAR	4	S/F	0240.0	0240.1	170.0	19.0			QL=6 ST=2 TYP=3
	9395	PEKG	1	S	0240.0	0242.5	8.0	16.0	3.7		
	9400	TYKW	5	S	0241.0	0241.4	9.0	18.0	5.0		
	3750	TYKW	45	C	0241.0	0241.5	3.0	42.0	11.0		
	1000	TYKW			0241.0	0241.6		12.0			
	1000	TYKW	45	C	0241.0	0242.0	1.5	13.0	3.0		
	8800	LEAR	4	S/F	0241.3	0241.3	4.0	20.0			QL=6 ST=2 TYP=3
	4995	LEAR	8	S	0241.3	0241.5	2.0	32.0			QL=6 ST=2 TYP=3
	2695	LEAR	8	S	0241.3	0241.5	2.0	29.0			QL=6 ST=2 TYP=3
	2000	TYKW	29	PBI	0243.0		7.0	3.0	1.0		
	3750	TYKW	29	PBI	0244.0		12.0	4.0	1.5		
	2000	TYKW	20	GRF	0452.0	0500.0	30.0	2.0	1.0		
	3750	TYKW	20	GRF	0452.0	0511.0	65.0	3.0	1.5		
	610	LEAR	47	GB	0523.8	0523.8	1.0	77.0			QL=6 ST=2 TYP=5
	930	BORD	41	F	0826.2	0826.4	.4	80.0	3.0		
	650	GORK	22	GRF	0827.5	0829.6	8.5	10.0	2.0		
	430	KRAK	8	S	0828.8	0829.1	1.0	470.0			
	245	LEAR	47	GB	0829.3	0829.6	1.0	460.0			QL=6 ST=2 TYP=5
	234	POTS	4	S/F	0829.4	0829.6	.7	400.0	10.0		
	234	POTS	4	S/F	0931.2	0931.2	.2	190.0	8.0		III
	930	BORD	8	S	0951.0	0951.0	.1	21.0	1.0		
	9100	GORK	21	GRF	0954.0	1117.3	126.00	21.0			
	6100	KISV	45	C	1010.0	1011.0	3.0	8.0			
	113	POTS	4	S/F	1022.7	1023.4	1.7	350.0	90.0		
	536	ONDR	4	S/F	1029.7	1029.8	.9	10.0			
	6100	KISV	3	S	1033.0	1033.8	2.0	6.0			
	8800	ATHN	4	S/F	1106.6	1108.5	9.0	11.0			QL=6 ST=2 TYP=3
	1415	ATHN	4	S/F	1106.8	1108.5	6.0	17.0			QL=6 ST=2 TYP=3
	3100	CRIM	45	C	1107.0	1108.2	12.0	26.0	8.0		
	6100	KISV	4	S/F	1107.0	1108.4	2.5	23.0			
	3100	CRIM			1107.0	1117.2		36.0	12.0		
	2950	GORK	21	GRF	1107.4	1119.5	53.00	18.0			
	9500	POTS	3	S	1107.5	1108.1	2.5				
	3000	POTS	3	S	1107.5	1108.3	2.0	26.0			
	4995	ATHN	4	S/F	1107.5	1108.5	5.0	33.0			QL=6 ST=2 TYP=3
	2695	ATHN	4	S/F	1107.6	1108.5	5.0	32.0			QL=6 ST=2 TYP=3
	9100	GORK	1	S	1107.8	1108.3	1.5	16.0	8.0		
	2650	DWIN	1	S	1108.0	1108.0	1.0	30.0	10.0		
	3000	IZMI	5	S	1108.0	1108.5	1.0	26.0	17.0		
	1470	POTS	3	S	1108.0	1108.5	3.0	16.0			
	950	GORK	23	GRF	1108.1	1117.4	40.60	4.5			
	2950	GORK	1	S	1108.2	1108.3	1.1	13.6			
	930	BORD	41	F	1108.2	1108.3	.4	28.0	2.0		
	9500	POTS	20	GRF	1111.0	1117.0					
	3000	POTS	21	GRF	1111.5	1117.5	64.0	38.0			
	4995	ATHN	4	S/F	1112.5	1117.3	13.0	33.0			QL=6 ST=2 TYP=3
	2695	ATHN	4	S/F	1112.8	1117.3	13.0	37.0			QL=6 ST=2 TYP=3
	1470	POTS	20	GRF	1113.0	1117.5	57.0	9.0			
	3000	IZMI	7	C	1114.0	1117.1	5.5	22.0	17.0		
	6100	KISV	2	S/F	1114.0	1117.5	7.0	15.0			
	2650	DWIN	2	S/F	1115.0	1117.0	5.0	20.0	10.0		
	2950	GORK	1	S	1115.0	1117.4	4.0	14.7			
	650	GORK	1	S	1116.0	1117.3	3.7	4.0	2.0		
	3100	CRIM	29		1119.0	1119.0	65.0	20.0	7.0		
	430	KRAK	42	SER	1132.4	1132.5	108.0	54.0			
	430	KRAK			1132.4	1214.0		78.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
17	430	KRAK			1132.4	1251.7		100.0			
	234	POTS	4	S/F	1201.2	1201.6	.5	180.0	3.0		
	2800	OTTA	21	GRF	1235.0	1450.0	235.0	11.4	5.6		
	3000	POTS	4	S/F	1239.0	1241.3	6.0	18.0			
	1470	POTS	3	S	1239.5	1239.7	2.5	8.0			
	2800	OTTA	2	S/F	1239.5	1241.5	6.5	9.0	4.4		
	536	ONDR	8	S	1239.8	1239.8	.4	172.0			
	6100	KISV	3	S	1240.0	1241.5	6.0	14.0			
	9400	HUAN	1	S	1240.1	1241.6	5.9	8.6	4.1		0
	9500	POTS	29	PBI	1306.5	1306.7	16.0				
	2800	OTTA	1	S	1306.5	1306.7	1.0	4.6	2.2		
	3000	POTS	29	PBI	1306.5	1306.9	24.0	13.0			
	2800	OTTA	1	S	1335.0	1335.8	2.0	3.2	1.6		
	4995	SGMR	4	S/F	1339.1	1339.3	20.0	19.0			QL=6 ST=2 TYP=3
	4995	ATHN	4	S/F	1423.5	1423.8	4.0	33.0			QL=6 ST=2 TYP=3
	2695	ATHN	4	S/F	1423.5	1423.8	4.0	42.0			QL=6 ST=2 TYP=3
	8800	ATHN	4	S/F	1423.5	1423.8	4.0	27.0			QL=6 ST=2 TYP=3
	1415	ATHN	4	S/F	1423.5	1424.0	4.0	8.0			QL=6 ST=2 TYP=3
	9400	HUAN	3	S	1424.0	1424.8	3.0	41.1	12.0		0
	11800	BERN	3	S	1424.0U	1425.0U	3.0U	29.0			ONLY PAPER REC
	8400	BERN	3	S	1424.0U	1425.0U	3.0U	26.0			ONLY PAPER REC
	4995	SGMR	47	GB	1424.3	1424.8	1.0	54.0			QL=6 ST=2 TYP=5
	3000	POTS	3	S	1424.5	1424.9	1.7	39.0			
	9500	POTS	3	S	1424.5	1425.0	1.2				
	1470	POTS	3	S	1424.5	1425.0	3.5	7.0			
	2800	OTTA	3	S	1424.5	1425.0	3.0	34.0	9.0		
	8800	SGMR	8	S	1424.6	1424.8	1.0	42.0			QL=6 ST=2 TYP=3
	2695	SGMR	47	GB	1424.6	1425.0	1.0	58.0			QL=6 ST=2 TYP=5
	15400	SGMR	8	S	1424.8	1425.0	1.0	30.0			QL=6 ST=2 TYP=3
	2650	DWIN	2	S/F	1425.0	1425.0	1.0	50.0	20.0		
	9400	HUAN	29	PBI	1427.0	1427.0	19.6	3.4	2.6		0
	930	BORD	41	F	1436.0	1436.1	.6	23.0	3.0		
	808	ONDR	1	S	1436.2	1436.4	.8	8.0			
	410	SGMR	4	S/F	1637.5	1637.6	100.0	50.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	1656.5	1657.0	1.5	2.8	1.4		
	410	SGMR	47	GB	1656.8	1656.8	1.0	139.0			QL=6 ST=2 TYP=5
	245	SGMR	49	GB	1656.8	1657.1	1.0	790.0			QL=6 ST=2 TYP=6
	2800	OTTA	20	GRF	1940.0	1955.0	40.0	2.6	1.3		
	2800	OTTA	23	GRF	2110.0	2145.0	110.0	6.8	3.4		
	3750	TYKW	20	GRF	2155.0U	2204.0	70.0U	4.0	2.0		
	1000	TYKW	42	SER	2202.7	2203.1		65.0	5.0		
	2000	TYKW	45	C	2202.8	2202.9	.8	17.0	4.0		
	2800	OTTA	8	S	2202.9	2203.0	.5	9.6			
18	410	LEAR	43	NS	0125.3	0130.6	536.0D	23.0			QL=6 ST=2 TYP=1
	100	GORK	44	NS	0455.0E		425.0D		30.0		
	200	GORK	44	NS	0455.0E		425.0D		20.0		
	204	IZMI	44	NS	0600.0E		360.0D	63.0			
	127	TORN	44	NS	0700.0E	1239.1	480.0D	480.0	47.0		V1
	260	ONDR	44	NS	0714.0E	1308.0U	474.0D	25.0U			
	245	SGMR	43	NS	1111.0	1208.6	681.0D	180.0			QL=6 ST=2 TYP=1
	536	ONDR	43	NS	1156.0	1308.0U	192.0D	58.0U			
	430	KRAK	43	NS	1252.2	1335.5	83.3D	108.0D	28.0U		
	410	SGMR	43	NS	1319.0	2013.0	553.0D	65.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1732.0	1742.1	333.0D	110.0			QL=6 ST=2 TYP=1
	410	PALE	43	NS	1732.0	1921.0	333.0D	34.0			QL=6 ST=2 TYP=1
	100	HIRA	44	NS	2043.0E	0220.0	720.0D	230.0	55.0		0
	200	HIRA	44	NS	2043.0E	0223.0	720.0D	170.0	60.0		WR
	410	LEAR	43	NS	2243.0	0159.0	697.0D	84.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2243.0	2304.1	697.0D	150.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E	0225.0	240.0D	120.0	54.0		
	3750	TYKW	5	S	0034.0	0036.0	5.0	5.0	2.0		
	1000	TYKW	45	C	0035.0	0035.2	1.5	3.0	1.0		
	245	LEAR	47	GB	0035.3	0035.8	1.0	100.0			QL=6 ST=2 TYP=5
	610	LEAR	8	S	0035.8	0036.0	1.0	9.0			QL=6 ST=2 TYP=3
	3750	TYKW	29	PBI	0039.0		25.0	1.5	.7		
	9400	TYKW	5	S	0047.0	0047.7	7.0	5.0	1.5		
	410	LEAR	8	S	0117.8	0118.0	1.0	13.0			QL=6 ST=2 TYP=3
	2000	TYKW	21	GRF	0130.0	0200.0	120.0	3.0	1.5		
	3750	TYKW	21	GRF	0220.0	0230.0	30.0	2.0	1.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
18	9400	TYKW	20	GRF	0220.0	0230.0	40.0	3.0	1.5		
	3750	TYKW	5	S	0235.0	0236.5	4.0	3.0	1.0		
	1000	TYKW	5	S	0236.0	0236.3	1.0	2.0	.5		
	2000	TYKW	5	S	0236.0	0236.5	2.0	3.0	1.0		
	610	LEAR	47	GB	0236.1	0236.3	10.0	239.0			QL=6 ST=2 TYP=5
	9400	TYKW	21	GRF	0308.0	0350.0	120.0	3.0	1.5		
	2000	TYKW	5	S	0344.0	0348.0	10.0	2.0	.7		
	3750	TYKW	28	PRE	0402.0	0402.8	8.0	5.0	2.0		
	1000	TYKW	5	S	0402.5	0402.7	1.0	4.0	1.5		
	2000	TYKW	5	S	0402.6	0402.9	1.0	2.5	1.0		
	9400	TYKW	45	C	0409.0	0411.0	15.0	24.0	7.0		
	1000	TYKW	21	GRF	0409.0	0427.0	70.0	2.0	1.0		
	2000	TYKW	21	GRF	0409.0	0430.0	140.0	7.0	3.0		
	9395	PEKG	5	S	0409.5	0411.2	24.5	20.7	3.8		
	2695	LEAR	47	GB	0409.8	0410.8	3.0	110.0			QL=6 ST=3 TYP=5
	4995	LEAR	47	GB	0409.8	0410.8	5.0	60.0			QL=6 ST=3 TYP=5
	8800	LEAR	4	S/F	0409.8	0411.0	3.0	33.0			QL=6 ST=3 TYP=3
	3750	TYKW	5	S	0410.0	0411.0	3.0	50.0	20.0		
	2000	TYKW	45	C	0410.0	0411.1	4.0	142.0	10.0		
	2840	PEKG	3	S	0410.0	0411.1	33.0	36.5	1.2		
	1415	LEAR	47	GB	0410.3	0411.0	2.0	180.0			QL=6 ST=3 TYP=5
	1415	MANI	3	S	0410.3	0411.0	2.2	76.6	25.5		
	4995	MANI	3	S	0410.3	0411.0	2.7	69.2	23.1		
	1000	TYKW	45	C	0410.5	0411.0	2.5	48.0	8.0		
	17000	NOBE	20	GRF	0410.5	0416.1	16.0	9.0			0
	610	LEAR	47	GB	0410.6	0410.8	1.0	72.0			QL=6 ST=3 TYP=5
	2695	MANI	3	S	0410.7	0410.9	1.2	97.9	32.7		
	8800	MANI	3	S	0410.7	0411.2	1.5	29.3	9.8		
	410	LEAR	8	S	0410.8	0410.8	1.0	39.0			QL=6 ST=3 TYP=3
	245	LEAR	8	S	0410.8	0411.0	2.0	23.0			QL=6 ST=3 TYP=3
	15400	LEAR	8	S	0410.8	0411.3	1.0	10.0			QL=6 ST=3 TYP=3
	3750	TYKW	30	PBI	0413.0		130.0	13.0	5.0		
	2000	TYKW	29	PBI	0414.0		6.0	3.0	1.5		
	9400	TYKW	29	PBI	0424.0		40.0	5.0	2.0		
	245	LEAR	47	GB	0445.3	0446.0	1.0	330.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	0445.5	0445.6	10.0	10.0			QL=6 ST=2 TYP=3
	2000	TYKW	5	S	0520.0	0521.0	4.0	2.0	.7		
	3750	TYKW	20	GRF	0520.0	0528.0	50.0	4.0	2.0		
	9400	TYKW	21	GRF	0521.0	0545.0	60.0	4.0	2.0		
	2000	TYKW	5	S	0525.0	0527.5	6.0	5.0	2.0		
	950	GORK	4	S/F	0526.0	0529.1	4.3	11.0			
	245	LEAR	47	GB	0526.3	0526.8	2.0	55.0			QL=6 ST=2 TYP=5
	1000	TYKW	45	C	0526.3	0527.5	4.0	13.0	3.5		
	200	GORK	4	S/F	0526.4	0527.4	3.5	200.0			
	650	GORK	46	C	0526.5	0527.3	3.5	13.0			
	650	GORK			0526.5	0529.2		6.0			
	610	LEAR	8	S	0526.8	0527.0	1.0	18.0			QL=6 ST=2 TYP=3
	100	HIRA	46	C	0526.8	0527.5	4.0	1100.0	240.0		WL
	2950	GORK	20	GRF	0526.8	0528.0	35.0	14.5			
	100	GORK	46	C	0527.0	0527.5	2.7	4300.0			
	100	GORK			0527.0	0529.3		4300.0			
	9100	GORK	22	GRF	0527.0	0537.6	28.2	8.6			
	9400	TYKW	5	S	0536.5	0537.6	4.0	6.0	1.5		
	6100	KISV	2	S/F	0537.0	0537.5	3.0	5.0			
	9400	TYKW	5	S	0629.0	0631.0	16.0	3.0	1.5		
	3750	TYKW	20	GRF	0629.0	0639.0	30.0	3.0	1.5		
	9100	GORK	20	GRF	0629.8	0634.9	11.3	4.7			
	3750	TYKW	5	S	0705.0	0711.5	25.0	5.0	1.5		
	9400	TYKW	5	S	0705.0	0712.0	25.0	3.0	1.5		
	3100	CRIM	1	S	0801.5	0801.7	11.0	11.0	4.0		
	430	KRAK	41	F	0813.7	0814.7	2.5	95.0			
	2650	DWIN	1	S	0815.0U		3.0U	15.0	7.0		
	3750	TYKW	5	S	0815.0	0816.0	9.0	22.0	7.0		
	2695	ATHN	4	S/F	0815.0	0817.0	5.0	16.0			QL=6 ST=2 TYP=3
	6100	KISV	4	S/F	0815.0	0817.0	5.0	15.0			
	4995	ATHN	4	S/F	0815.1	0817.0	6.0	34.0			QL=6 ST=2 TYP=3
	950	GORK	2	S/F	0815.8	0816.8	2.8	8.0			
	3000	POTS	3	S	0815.8	0817.0	5.2	12.0			
	8800	ATHN	4	S/F	0815.8	0817.1	5.0	11.0			QL=6 ST=2 TYP=3
	9100	GORK	22	GRF	0815.8	1120.3	229.0D	18.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
18	2950	GORK	20	GRF	0815.9	0816.9	8.5	10.0	5.0		
	2840	PEKG	1	S	0816.0	0817.3	3.0	7.3	1.5		
	1415	ATHN	8	S	0816.1	0817.0	2.0	20.0			QL=6 ST=2 TYP=3
	1470	POTS	4	S/F	0816.5	0816.9	1.9	24.0			
	2000	TYKW	45	C	0816.5	0816.9	1.5	26.0	7.0		
	1000	TYKW	45	C	0816.5	0816.9	2.0	12.0U	3.0U		
	1415	LEAR	8	S	0816.6	0816.8	1.0	28.0			QL=6 ST=2 TYP=3
	4995	LEAR	8	S	0816.6	0816.8	2.0	28.0			QL=6 ST=2 TYP=3
	9395	PEKG	1	S	0816.6	0817.0	5.0	10.9	.3		
	2695	LEAR	4	S/F	0817.1	0817.3	20.0	7.0			QL=6 ST=2 TYP=3
	2950	GORK	20	GRF	0837.6	0843.8	46.3	4.0	2.0		
	430	KRAK	8	S	0928.9	0929.0	.2	34.0			
	430	KRAK	41	F	1011.9	1024.2	15.5	130.0			
	536	ONDR	8	S	1023.0	1023.2	.3	13.0			
	2950	GORK	20	GRF	1030.0	1137.5	96.0D	11.6			
	6100	KISV	1	S	1054.0	1054.0	1.0	5.0			
	29	UPIC	42	SER	1058.4	1239.1	114.1				
	33	UPIC	42	SER	1058.5	1238.8	114.2				
	930	BORD	41	F	1103.1	1103.2	.3	34.0	2.0		
	930	BORD	46	C	1108.0	1108.3	1.0	15.0	3.0		
	430	KRAK	42	SER	1125.0	1157.6	44.0	99.0			
	430	KRAK			1125.0	1207.8		580.0D			
	6100	KISV	27	RF	1136.5	1140.2	11.0	7.0			
	3000	POTS	3	S	1207.5	1208.5	2.0	10.0			
	1470	POTS	3	S	1207.5	1208.5	1.5	7.5			
	2800	OTTA	1	S	1208.0	1208.5	1.0	9.0	4.0		
	113	POTS	4	S/F	1208.4	1208.6	.4	100.0	20.0		III
	2650	DWIN	2	S/F	1230.0U		3.0U	20.0	10.0		
	6100	KISV	4	S/F	1230.4	1232.6	2.5	24.0			
	3000	POTS	4	S/F	1230.5	1231.5	5.5	18.0			
	9400	HUAN	1	S	1230.5	1231.6	2.9	8.4	5.0		0
	3100	CRIM	1	S	1230.6	1231.6	4.0	22.0	7.0		
	4995	SGMR	8	S	1231.0	1231.6	1.0	49.0			QL=6 ST=2 TYP=3
	2800	OTTA	4	S/F	1231.0	1231.7	3.0	18.2	9.0		
	1470	POTS	3	S	1231.0	1231.7	4.0	11.0			
	2695	SGMR	8	S	1231.1	1231.6	1.0	26.0			QL=6 ST=2 TYP=3
	930	BORD	41	F	1233.0	1233.8	1.0	10.0	2.0		
	2800	OTTA	29	PBI	1234.0	1234.0	8.0	4.6	2.6		
	4995	ATHN	8	S	1236.3	1237.0	2.0	39.0			QL=6 ST=2 TYP=3
	2695	ATHN	8	S	1236.3	1237.1	2.0	22.0			QL=6 ST=2 TYP=3
	8800	ATHN	8	S	1236.3	1237.1	2.0	13.0			QL=6 ST=2 TYP=3
	1415	ATHN	8	S	1236.5	1237.0	1.0	5.0			QL=6 ST=2 TYP=3
	113	POTS	4	S/F	1238.8	1238.8	.8	550.0	35.0		III
	610	SGMR	4	S/F	1300.6	1300.8	19.0	20.0			QL=6 ST=2 TYP=3
	410	SGMR	4	S/F	1300.6	1301.0	19.0	24.0			QL=6 ST=2 TYP=3
	245	SGMR	4	S/F	1308.1	1308.3	11.0	60.0			QL=6 ST=2 TYP=3
	930	BORD	8	S	1314.1	1314.2	.2	33.0	1.0		
	234	POTS	4	S/F	1316.9	1317.0	.8	200.0	40.0		III
	2800	OTTA	20	GRF	1330.0	1336.0	18.0	4.6	2.3		
	9400	HUAN	21	GRF	1330.1	1359.0	44.9	6.7	2.3		L
	2800	OTTA	21	GRF	1353.0		50.0	8.0			
	4995	SGMR	47	GB	1353.5	1353.8	10.0	59.0			QL=6 ST=2 TYP=5
	1470	POTS	29	PBI	1353.5	1354.0	37.0	13.0			
	4995	ATHN	4	S/F	1353.5	1355.3	6.0	49.0			QL=6 ST=2 TYP=3
	3000	POTS	29	PBI	1353.5	1355.4	42.0	16.0			
	9500	POTS	29	PBI	1353.5	1355.5					
	8800	ATHN	4	S/F	1353.6	1355.6	7.0	31.0			QL=6 ST=2 TYP=3
	9400	HUAN	2	S/F	1353.6	1355.8	3.2	28.4	10.7		L
	2800	OTTA	2	S/F	1353.7	1357.2	3.5D	9.0	5.0		
	2695	SGMR	8	S	1353.8	1355.3	2.0	19.0			QL=6 ST=2 TYP=3
	8800	SGMR	4	S/F	1353.8	1355.6	3.0	47.0			QL=6 ST=2 TYP=3
	2800	OTTA	20	GRF	1555.0	1615.0	45.0	3.8	1.9		
	9400	HUAN	20	GRF	1701.1	1709.6U	27.8	5.0	1.7		0
	2800	OTTA			1755.0		115.0	3.8			
	2800	OTTA	1	S	2040.8	2041.0	1.2	10.0	5.0		
	2800	OTTA	29	PBI	2042.0	2042.0	30.0	3.6	2.8		
	9400	HUAN	28	PRE	2111.2	2135.5	24.3	21.8	5.8		0
	2800	OTTA	21	GRF	2118.0		120.0	17.8	9.0		
	9400	HUAN	4	S/F	2131.5	2137.4	9.9	110.5	53.7		R
	3750	TYKW	45	C	2132.0	2137.8	13.0	170.0	30.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
18	9400	TYKW	45	C	2132.0	2137.8	17.0	133.0	30.0		
	2000	TYKW	45	C	2132.0	2138.3	12.0	43.0	13.0		
	4995	PALE	47	GB	2134.8	2137.6	8.0	210.0			QL=6 ST=2 TYP=5
	8800	PALE	47	GB	2135.6	2137.8	8.0	169.0			QL=6 ST=2 TYP=5
	4995	SGMR	47	GB	2136.0	2137.6	6.0	200.0			QL=6 ST=2 TYP=5
	2800	OTTA	4	S/F	2136.0	2138.0	9.0	150.0	40.0		
	8800	SGMR	47	GB	2136.3	2137.8	5.0	139.0			QL=6 ST=2 TYP=5
	2695	SGMR	47	GB	2136.5	2138.0	6.0	139.0			QL=6 ST=2 TYP=5
	2695	PALE	47	GB	2136.6	2138.0	6.0	169.0			QL=6 ST=2 TYP=5
	15400	PALE	47	GB	2137.0	2137.8	5.0	69.0			QL=6 ST=2 TYP=5
	15400	SGMR	47	GB	2137.1	2137.6	3.0	53.0			QL=6 ST=2 TYP=5
	100	HIRA	46	C	2137.3	2137.6	1.1	1200.0	370.0		ML
	9400	HUAN	29	PBI	2141.4	2141.4	23.7	18.4	5.3		R
	2000	TYKW	29	PBI	2144.0		85.0	10.0	5.0		
	3750	TYKW	30	PBI	2145.0		80.0	8.0	3.5		
	9400	TYKW	30	PBI	2149.0		85.0	17.0	9.0		
	3750	TYKW	20	GRF	2227.0	2234.3	40.0	7.0	2.5		
	9400	TYKW	5	S	2229.0	2234.0	20.0	5.0	2.0		
	3750	TYKW	21	GRF	2340.0	2350.0	40.0	4.0	2.0		
	2695	PENT	21	GRF	2340.0	2400.0	80.0D	3.8			
	3750	TYKW	5	S	2341.0	2342.2	4.0	6.0	1.5		
	2000	TYKW	21	GRF	2341.0	2400.0	160.0	4.0	2.0		
	2695	PENT	1	S	2341.5	2342.1	1.0	4.0	2.0		
	2000	TYKW	5	S	2342.0	2342.3	.7	3.0	1.0		
19	610	LEAR	43	NS	0110.0	0803.3	550.0D	180.0			QL=6 ST=2 TYP=1
	100	GORK	44	NS	0434.0E		414.0D		10.0		
	200	GORK	44	NS	0434.0E		474.0D				
	204	IZMI	44	NS	0600.0E		360.0D	50.0			
	127	TORN	44	NS	0700.0E	1246.9	480.0D	600.0	49.0		V1
	260	ONDR	44	NS	0718.0E	0740.0U	430.0D	4.0U			
	410	PALE	43	NS	1720.0	2048.0	650.0D	41.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1720.0	2257.5	650.0D	38.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2042.0E	0400.0	725.0D	55.0	40.0		WR
	245	LEAR	43	NS	2244.0	0436.5	695.0D	130.0			QL=6 ST=2 TYP=1
	410	LEAR	43	NS	2244.0	2334.3	695.0D	35.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.0D		26.0		
	9400	TYKW	21	GRF	0025.0	0059.0	115.0	11.0	3.0		
	2000	TYKW	45	C	0112.0	0210.7	135.0	16.0	4.0		
	3750	TYKW	5	S	0153.0	0153.7	2.0	2.0	.7		
	3750	TYKW	28	PRE	0403.0	0415.5	16.0	7.0	5.0		
	4995	LEAR	4	S/F	0418.6	0420.6	6.0	22.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0418.6	0420.8	4.0	11.0			QL=6 ST=2 TYP=3
	2000	TYKW	5	S	0419.0	0420.5	4.0	3.0	1.0		
	3750	TYKW			0419.0	0420.6		22.0			
	3750	TYKW			0419.0	0428.1		16.0			
	3750	TYKW			0419.0	0439.4		34.0			
	2000	TYKW	21	GRF	0419.0	0440.0	105.0	5.0	2.0		
	9400	TYKW	28	PRE	0419.0	0448.0	35.0	25.0	12.0		
	3750	TYKW	45	C	0419.0	0459.2	61.0	103.0	25.0		
	17000	NOBE	20	GRF	0430.0	0500.5	80.0	22.0			0
	8800	LEAR	20	GRF	0435.0	0439.3	8.0	24.0			QL=6 ST=2 TYP=2
	15400	LEAR	20	GRF	0435.0	0441.0	8.0	11.0			QL=6 ST=2 TYP=2
	2695	LEAR	20	GRF	0435.8	0439.3	8.0	10.0			QL=6 ST=2 TYP=2
	4995	LEAR	20	GRF	0435.8	0439.5	8.0	26.0			QL=6 ST=2 TYP=2
	9395	PEKG	3	S	0437.0	0459.4	22.4U	67.5	10.3		
	9400	TYKW	5	S	0454.0	0459.1	12.0	82.0	41.0		
	2840	PEKG	3	S	0454.0	0459.5	16.0	20.7	2.1		
	2000	TYKW	5	S	0458.0	0459.2	3.0	5.0	3.0		
	4995	LEAR	47	GB	0458.1	0459.1	7.0	110.0			QL=6 ST=3 TYP=5
	15400	LEAR	4	S/F	0458.1	0459.1	8.0	10.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0458.1	0459.1	3.0	30.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0458.1	0459.1	9.0	80.0			QL=6 ST=2 TYP=3
	8800	MANI	3	S	0458.5	0459.6	1.9	96.3	32.1		
	4995	MANI	3	S	0458.5	0459.6	5.0	129.5	43.2		
	2695	MANI	3	S	0458.6	0459.6	1.9	84.9	28.3		
	2000	TYKW	29	PBI	0501.0		40.0	2.0	1.0		
	9395	PEKG	29	PBI	0502.0	0505.9	52.0	31.7	8.4		
	9400	TYKW	29	PBI	0506.0		63.0	40.0	18.0		
	9100	GORK	23	GRF	0506.0E	0513.8	414.0D	46.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
19	2950	GORK	22	GRF	0508.0E		399.0D				
	650	GORK	22	GRF	0509.0E	0542.4	227.0D	11.0			
	3750	TYKW	29	PBI	0520.0		90.0	21.0	6.0		
	245	LEAR	8	S	0646.1	0646.8	1.0	33.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0646.6	0646.8	1.0	20.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0655.0	0658.0	10.0	2.0	1.0		
	6100	KISV	4	S/F	0707.5	0708.3	2.0	32.0			
	9100	GORK	3	S	0707.7	0708.2	1.7	54.0			
	9400	TYKW	5	S	0707.7	0708.3	3.0	55.0	10.0		
	3750	TYKW	5	S	0708.0	0708.3	2.0	3.0	1.0		
	9395	PEKG	5	S	0708.0	0708.6	3.0	44.3	4.7		
	8800	MANI	3	S	0708.0	0708.8	1.5	86.7	28.9		
	4995	MANI	3	S	0708.0	0708.8	1.5	25.9	8.6		
	8800	LEAR	47	GB	0708.1	0708.3	1.0	60.0			QL=6 ST=2 TYP=5
	4995	LEAR	4	S/F	0708.1	0708.3	70.0	20.0			QL=6 ST=2 TYP=3
	8800	ATHN	8	S	0708.1	0708.3	1.0	42.0			QL=5 ST=2 TYP=3
	15400	LEAR	47	GB	0708.1	0708.3	1.0	56.0			QL=6 ST=2 TYP=5
	4995	ATHN	8	S	0708.1	0708.3	1.0	19.0			QL=5 ST=2 TYP=3
	17000	NOBE	1	S	0708.1	0708.4	1.0	44.0			0
	6100	KISV	2	S/F	0805.4	0806.3	1.5	12.0			
	9100	GORK	1	S	0805.5	0806.1	1.4	15.0	7.0		
	9400	TYKW	5	S	0805.6	0806.2	1.5	14.0	5.0		
	6100	KISV	20	GRF	0811.5	0814.0	30.0	.5			
	3100	CRIM	20	GRF	0813.0	0840.0	60.0	5.0	2.0		
	9100	GORK	1	S	0909.4	0909.8	1.3	10.0	5.0		
	9500	POTS	23	GRF	0917.0	0918.7	48.0				
	6100	KISV	20	GRF	0917.0	0928.0	52.0	9.0			
	6100	KISV	2	S/F	0918.5	0918.9	1.0	6.0			
	6100	KISV	1	S	0938.4	0938.7	.6	4.0			
	3000	POTS	20	GRF	1008.5		108.0				
	6100	KISV			1010.0	1012.0		6.0			
	6100	KISV	21	GRF	1013.0	1025.3	40.0	9.0			
	9500	POTS	22	GRF	1020.0	1045.0	65.0				
	930	BORD	46	C	1024.0	1024.4	.7	14.0	3.0		
	430	KRAK	42	SER	1041.0	1111.2	68.0	120.0			
	100	GORK	8	S	1051.0	1051.1	.5	140.0			
	100	GORK	4	S/F	1120.6	1120.7	.8	170.0D			
	536	ONDR	40	F	1153.9	1154.0	1.2	7.0	7.0		
	430	KRAK	8	S	1214.5	1214.5	.2	24.0			
	430	KRAK	8	S	1222.2	1222.2	.2	20.0			
	6100	KISV	4	S/F	1253.5	1254.4	1.5	10.0			
	4995	SGMR	4	S/F	1254.0	1254.3	60.0	22.0			QL=6 ST=2 TYP=3
	536	ONDR	8	S	1254.3	1254.4	.1	10.0			
	2800	OTTA	22	GRF	1255.0	1335.0	105.0	12.2			
	536	ONDR	8	S	1256.2	1256.2	.1	20.0			
	536	ONDR	8	S	1312.0	1312.0	.1	7.0			
	536	ONDR	8	S	1335.9	1335.9	.1	11.0			
	2800	OTTA	21	GRF	1510.0	1555.0	210.0	18.0	5.0		
	9400	HUAN	21	GRF	1512.6	1553.8	89.7	39.8	16.5		0
	2650	DWIN	4	S/F	1530.0U		8.0U	75.0	30.0		
	4995	ATHN	20	GRF	1531.0	1535.1	13.0	65.0			QL=6 ST=2 TYP=2
	2695	ATHN	20	GRF	1531.6	1534.8	13.0	53.0			QL=6 ST=2 TYP=2
	2800	OTTA	4	S/F	1532.0	1534.7	10.0	78.0	26.0		
	8400	BERN	4	S/F	1532.0U	1537.0U	11.0U	29.0			ONLY PAPER REC
	11800	BERN	4	S/F	1532.0U	1537.0U	11.0U	40.0			ONLY PAPER REC
	8800	ATHN	20	GRF	1532.5	1537.1	8.0	35.0			QL=6 ST=2 TYP=2
	2695	SGMR	47	GB	1532.8	1534.8	12.0	93.0			QL=6 ST=2 TYP=5
	4995	SGMR	47	GB	1533.1	1535.3	11.0	82.0			QL=6 ST=2 TYP=5
	9400	HUAN	4	S/F	1533.7	1537.3	5.7	41.5	20.6		R
	8800	SGMR	4	S/F	1534.3	1535.3	5.0	38.0			QL=6 ST=2 TYP=3
	1415	SGMR	8	S	1534.5	1535.0	2.0	21.0			QL=6 ST=2 TYP=3
	15400	SGMR	8	S	1536.8	1537.1	1.0	49.0			QL=6 ST=2 TYP=3
	930	BORD	41	F	1611.2	1611.5	.6	46.0	3.0		
	2800	OTTA	20	GRF	1705.0	1710.0	15.0	5.6	2.8		
	245	SGMR	8	S	1804.5	1804.6		169.0			QL=6 ST=2 TYP=3
	2695	PENT	8	S	2002.3	2002.6	.8	4.2	2.1		
	9400	HUAN	3	S	2003.2	2004.0	1.5	26.5	10.0		0
	8800	SGMR	8	S	2003.6	2004.3	2.0	35.0			QL=6 ST=2 TYP=3
	15400	SGMR	8	S	2003.8	2004.3	1.0	40.0			QL=6 ST=2 TYP=3
	15400	PALE	4	S/F	2004.0	2004.3	50.0	46.0			QL=6 ST=2 TYP=3

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19	8800	PALE	4	S/F	2004.0	2004.3	80.0	44.0			QL=6 ST=2 TYP=3
	2800	OTTA	20	GRF	2055.0	2100.0	50.0	3.8			
	9400	HUAN	20	GRF	2056.2	2058.0	16.4	11.6	5.0		0
	4995	PALE	8	S	2057.1	2057.6	2.0	24.0			QL=6 ST=3 TYP=3
	4995	SGMR	8	S	2057.3	2058.3	1.0	19.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	2057.3	2058.6	2.0	21.0			QL=6 ST=2 TYP=3
	2695	PALE	4	S/F	2106.3	2106.6	7.0	23.0			QL=6 ST=2 TYP=3
	1415	SGMR	8	S	2119.6	2119.8	1.0	30.0			QL=6 ST=2 TYP=3
	610	SGMR	8	S	2135.8	2136.1	1.0	47.0			QL=6 ST=2 TYP=3
	410	SGMR	8	S	2136.5	2136.8		17.0			QL=6 ST=2 TYP=3
	2695	PENT	27	RF	2200.0		110.0	3.0	2.8		
	2695	PENT	24	R	2200.0	2205.0	5.0	3.0	1.5		
	3750	TYKW	20	GRF	2200.0	2247.0	110.0	6.0	2.0		
	2000	TYKW	5	S	2203.0	2203.8	4.0	4.0	1.5		
	2695	PENT	24P	R	2205.0		95.0	3.0			
	9400	TYKW	20	GRF	2220.0U	2257.0	90.0U	4.0U	2.0U		INTERFERENCE
	410	PALE	4	S/F	2255.3	2255.6	3223.2	30.0			QL=6 ST=2 TYP=3
	2000	TYKW	45	C	2256.0	2256.7	4.0	14.0	4.0		
	610	PALE	4	S/F	2257.5	2257.6	10.0	18.0			QL=6 ST=3 TYP=3
	2695	PENT	26	FAL	2340.0	2350.0	10.0	3.0	1.5		
20	200	GORK	44	NS	0430.0E		390.0D		20.0		
	204	IZMI	44	NS	0600.0E		360.0D	20.0			
	127	TORN	44	NS	0700.0E	0832.3	480.0D	660.0	20.0		V1
	260	ONDR	44	NS	0723.0E	1005.0U	468.0D	13.0U			
	536	ONDR	43	NS	0940.0	1120.0U	132.0D	7.0			
	245	SGMR	43	NS	1108.0	1228.3	685.0D	480.0			QL=6 ST=2 TYP=1
	260	ONDR	44	NS	1503.4E	1506.0	6.8D		81.0U		
	410	PALE	43	NS	1705.0	1736.0	670.0D	139.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1705.0	1921.5	670.0D	490.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2039.0E	0300.0	725.0D	35.0	20.0		WR
	100	HIRA	44	NS	2039.0E	2200.0	210.0D	120.0	60.0		WR
	245	LEAR	43	NS	2244.0	0019.8	694.0D	290.0			QL=6 ST=2 TYP=1
	410	LEAR	43	NS	2244.0	0541.5	694.0D	85.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.0D		15.0		
	3750	TYKW	20	GRF	0150.0	0208.0	30.0	3.0	1.0		
	2000	TYKW	20	GRF	0200.0	0205.0	30.0	2.0	1.0		
	2000	TYKW	20	GRF	0303.0	0325.0	60.0	2.0	1.0		
	3750	TYKW	21	GRF	0305.0	0325.0	50.0	4.0	2.0		
	3750	TYKW	5	S	0335.0	0336.0	10.0	3.0	1.0		
	2840	PEKG	1	S	0345.0	0345.6	2.0	3.2	1.5		
	2000	TYKW	20	GRF	0405.0	0413.5	45.0	3.0	1.0		
	3750	TYKW	20	GRF	0405.0	0414.0	40.0	5.0	2.0		
	2840	PEKG	5	S	0408.0	0413.8	11.0	4.8	1.5		
	9395	PEKG	1	S	0411.0	0415.5	8.0	4.6	1.8		
	2000	TYKW	5	S	0412.0	0414.5	6.0	3.0	1.0		
	2950	GORK	20	GRF	0459.0E	0727.0	230.0D	10.0			
	9100	GORK	22	GRF	0500.0E	0728.5	360.0D	13.0			
	3750	TYKW	21	GRF	0503.0	0510.0	40.0	3.0	1.5		
	2840	PEKG			0516.0	0517.0		4.1			
	2840	PEKG	41	F	0516.0	0519.0		4.1	1.8		
	2840	PEKG			0516.0	0521.0	7.0	4.1			
	3750	TYKW	5	S	0530.0	0530.3	1.0	2.0	.7		
	1000	TYKW	5	S	0551.5	0551.8	1.0	3.0	1.0		
	2000	TYKW	5	S	0551.5	0551.8	1.0	3.0	1.0		
	3750	TYKW	5	S	0551.5	0551.8	1.0	2.0	.7		
	2000	TYKW	5	S	0551.5	0551.9	1.0	3.0	1.0		
	245	LEAR	47	GB	0551.6	0551.8	2.0	239.0			QL=6 ST=2 TYP=5
	1415	LEAR	8	S	0551.6	0551.8	1.0	42.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0551.6	0551.8	1.0	10.0			QL=6 ST=2 TYP=3
	410	LEAR	47	GB	0551.6	0553.5	2.0	130.0			QL=6 ST=2 TYP=5
	650	GORK	1	S	0551.7	0552.1	.9	4.0	2.0		
	950	GORK	1	S	0551.8	0552.1	2.5	3.0			
	3750	TYKW	5	S	0606.0	0617.0	25.0	3.0	1.5		
	3750	TYKW	5	S	0642.0	0643.6	4.0	2.0	.7		
	9400	TYKW	5	S	0647.0	0648.0	5.0	3.0	1.5		
	9400	TYKW	5	S	0658.0	0703.0	12.0	4.0	2.0		
	3750	TYKW	21	GRF	0658.0	0725.0	65.0	6.0	3.0		
	3750	TYKW	5	S	0659.0	0703.0	9.0	3.0	1.5		
	430	KRAK	42	SER	0810.9	0815.0	199.0	94.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
20	430	KRAK			0810.9	1048.2		55.0			
	430	KRAK			0810.9	1124.8		66.0			
	650	GORK	21	GRF	0943.5	1015.0	62.0	13.0			
	650	GORK	1	S	0952.8	0953.0	.9	2.0	1.0		
	650	GORK	2	S/F	0954.3	0955.2	1.9	3.4	1.7		
	2950	GORK	20	GRF	1033.0	1049.2	34.00	7.0			
	113	POTS	4	S/F	1044.9	1045.0	.3	340.0	25.0		III
	100	GORK	46	C	1056.6	1056.7	.6	110.00			
	100	GORK			1056.6	1056.9		110.00			
	430	KRAK	8	S	1208.7	1208.7	.2	27.0			
	430	KRAK	41	F	1214.9	1220.5	6.6	22.0			
	6100	KISV	3	S	1240.8	1241.2	1.0	5.0			
	6100	KISV	2	S/F	1251.4	1252.1	2.0	7.0			
	234	POTS	4	S/F	1306.2	1306.5	1.0	300.0	5.0		III
	430	KRAK	8	S	1329.4	1329.4	.2	29.0			
	536	ONDR	46	C	1501.7	1503.4	7.2	55.0	11.0		
	610	SGMR	49	GB	1502.6	1502.8	2.0	530.0			QL=6 ST=2 TYP=6
	410	SGMR	47	GB	1503.1	1504.1	2.0	320.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	1503.8	1505.0	4.0	239.0			QL=6 ST=2 TYP=5
	2800	OTTA	20	GRF	1815.0	1855.0	120.0	4.4	2.2		
	245	SGMR	4	S/F	2121.3	2121.8	40.0	93.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	2157.4	2157.5	1.0	22.0	6.0		
	3750	TYKW	20	GRF	2330.0	2337.0	60.0	3.0	1.0		
	2000	TYKW	20	GRF	2330.0	2350.0	90.0	2.0	1.0		
21	200	GORK	44	NS	0430.0E		390.00		15.0		
	204	IZMI	43	NS	0600.0		360.00	28.0			
	127	TORN	44	NS	0700.0E	1015.1	480.00	70.0	11.0		V1
	260	ONDR	44	NS	0756.0E	1437.0U	424.00	13.0U			
	536	ONDR	43	NS	0910.0	0932.0U	90.00	6.0			
	245	SGMR	43	NS	1106.0	1404.6	689.00	210.0			QL=6 ST=2 TYP=1
	410	PALE	43	NS	1705.0	2121.1	670.00	41.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1705.0	2144.6	670.00	160.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	2038.0E	0610.0	725.00	20.0	10.0		WL
	410	LEAR	43	NS	2244.0	0717.1	693.00	19.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2244.0	0835.8	693.00	130.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.00		9.0		
	100	GORK			0000.0	1038.0		140.00			
	9395	PEKG	45	C	0030.0	0031.1	2.0	14.4	2.7		
	3750	TYKW	21	GRF	0043.0	0053.0	85.0	2.0	1.0		
	3750	TYKW	5	S	0102.0	0103.3	7.0	3.0	1.0		
	9395	PEKG	20	GRF	0102.0	0104.1	37.0	12.8	1.5		
	9400	TYKW	5	S	0102.5	0103.8	3.0	14.0	5.0		
	4995	LEAR	4	S/F	0102.8	0103.8	4.00	15.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0102.8	0103.8	3.00	20.0			QL=6 ST=2 TYP=3
	8800	PALE	4	S/F	0103.6	0103.8	20.0	21.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	0105.5		30.0	3.0	1.5		
	3750	TYKW	5	S	0148.0	0156.0	15.0	3.0	1.5		
	3750	TYKW	21	GRF	0223.0	0252.0	130.0	5.0	2.0		
	3750	TYKW	5	S	0246.0	0247.0	2.5	2.0	.7		
	3750	TYKW	5	S	0333.0	0339.0	15.0	2.0	1.0		
	9395	PEKG	45	C	0337.0	0344.0	11.0	12.2	2.9		
	1000	TYKW	45	C	0339.0	0339.4	1.0	14.0	4.0		
	1000	TYKW	5	S	0340.2	0340.5	.7	13.0	4.0		
	2000	TYKW	5	S	0404.0	0405.3	4.0	3.0	1.0		
	1000	TYKW	5	S	0404.0	0405.5	5.0	2.0	1.0		
	100	GORK	41	F	0603.5	0604.3	3.3	100.00			
	100	GORK			0603.5	0606.2		10.00			
	650	GORK	22	GRF	0608.0	0638.0	67.9	4.0			
	2840	PEKG	20	GRF	0619.0	0622.0	10.0	3.3	1.7		
	3750	TYKW	5	S	0619.0	0622.0	10.0	2.0	1.0		
	3750	TYKW	20	GRF	0633.0	0700.0	55.0	5.0	3.0		
	9395	PEKG	3	S	0743.0	0745.4	25.0	37.2	1.8		
	8400	BERN	3	S	0744.0U	0745.0U	5.0U	40.0			ONLY PAPER REC
	11800	BERN	3	S	0744.0U	0745.0U	5.0U	21.0			ONLY PAPER REC
	6100	KISV	4	S/F	0744.4	0745.0	6.0	28.0			
	9500	POTS	3	S	0744.5	0745.1	9.0				
	9100	GORK	3	S	0744.5	0745.2	1.1	46.0			
	9400	TYKW	5	S	0744.5	0745.2	1.5	39.0	16.0		
	4995	ATHN	8	S	0744.6	0745.1	1.0	26.0			QL=5 ST=2 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
21	3750	TYKW	5	S	0744.7	0745.1	6.0	5.0	1.5		
	4995	LEAR	8	S	0744.8	0745.0	1.0	22.0			QL=6 ST=2 TYP=3
	8800	LEAR	47	GB	0744.8	0745.1	1.0	51.0			QL=6 ST=2 TYP=5
	8800	ATHN	4	S/F	0745.0	0745.1	80.0	16.0			QL=5 ST=2 TYP=3
	9100	GORK	29	PBI	0745.6	0745.6	15.3	14.0			
	9400	TYKW	29	PBI	0746.0		15.0	6.0	2.0		
	430	KRAK	42	SER	0807.2	0925.4	167.0	140.0			
	430	KRAK			0807.2	1045.8		130.0			
	29	UPIC	4	S/F	0824.2	0824.8U	2.7				
	33	UPIC	4	S/F	0824.4	0824.6	2.4				
	650	GORK	20	GRF	0837.2	0927.0	118.1	3.6			
	127	TORN	7	C	0858.5	0900.5	3.0	80.0	20.0		
	930	BORD	3	S	0901.6	0901.8	.8	11.0	4.0		
	100	GORK	41	F	1036.2	1036.7	3.4	140.00			
	6100	KISV	1	S	1103.8	1104.5	1.5	4.0			
	6100	KISV	2	S/F	1114.1	1114.9	1.5	7.0			
	8800	ATHN	8	S	1114.3	1115.1	2.0	13.0			QL=6 ST=2 TYP=3
	9500	POTS	3	S	1114.5	1114.9	2.0				
	4995	ATHN	8	S	1114.5	1115.1	2.0	3.0			QL=6 ST=2 TYP=3
	6100	KISV	2	S/F	1123.7	1124.8	4.0	10.0			
	4995	ATHN	8	S	1124.0	1125.1	2.0	8.0			QL=6 ST=2 TYP=3
	8800	ATHN	8	S	1124.0	1125.1	2.0	13.0			QL=6 ST=2 TYP=3
	9500	POTS	3	S	1124.5	1125.0	2.5				
	536	ONDR	40	F	1148.9	1150.9	4.7	7.0	2.0		
	430	KRAK	40	F	1150.0	1151.2	3.2	52.0			
	810	KRAK	8	S	1151.2	1151.2	.2	24.0			
	33	UPIC	42	SER	1228.6	1404.7	96.5				
	29	UPIC	42	SER	1228.8	1404.5	96.5				
	810	KRAK	8	S	1252.4	1252.4	.2	12.0			
	113	POTS	4	S/F	1259.1	1259.2	.3	250.0	25.0		III
	930	BORD	46	C	1334.4	1334.6	.5	18.0	3.0		
	127	TORN	8	S	1404.0	1404.7	1.2	24000.0	1200.0		
	2695	SGMR	4	S/F	1452.8	1453.1	3.0	13.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	1453.0	1453.1	1.5	4.4	2.2		
	1415	SGMR	4	S/F	1453.0	1453.1	3.0	22.0			QL=6 ST=2 TYP=3
	610	SGMR	4	S/F	1453.0	1453.1	6.0	23.0			QL=6 ST=2 TYP=3
	245	SGMR	47	GB	1453.0	1453.1	1.0	370.0			QL=6 ST=2 TYP=5
	4995	SGMR	8	S	1453.0	1453.1	1.0	7.0			QL=6 ST=2 TYP=3
	15400	SGMR	8	S	1453.0	1453.1	1.0	30.0			QL=6 ST=2 TYP=3
	410	SGMR	4	S/F	1453.0	1453.1	20.0	10.0			QL=6 ST=2 TYP=3
	8800	SGMR	8	S	1453.0	1453.1	1.0	17.0			QL=6 ST=2 TYP=3
	930	BORD	46	C	1453.0	1453.6	2.0	57.0	12.0		
	808	ONDR	3	S	1453.6	1454.1	4.0	22.0	6.0		
	610	SGMR	4	S/F	1507.0	1507.1	60.0	34.0			QL=6 ST=2 TYP=3
	2800	OTTA	8	S	1539.0	1539.1	.2	2.2	1.1		
	930	BORD	46	C	1546.0	1547.8	2.5	101.0	13.0		
	1415	SGMR	8	S	1547.3	1547.8	1.0	38.0			QL=6 ST=2 TYP=3
	610	SGMR	8	S	1547.6	1547.8	1.0	29.0			QL=6 ST=2 TYP=3
	2800	OTTA	4	S/F	1754.2	1756.0	6.0	120.0	20.0		
	245	SGMR	49	GB	1754.6	1755.8	2.0	1000.0			QL=6 ST=3 TYP=6
	9400	HUAN	3	S	1754.7	1756.0	3.7	118.2	40.3		R
	245	PALE	49	GB	1755.0	1755.5	2.0	1300.0			QL=6 ST=2 TYP=6
	610	PALE	47	GB	1755.3	1755.8	3.0	82.0			QL=6 ST=2 TYP=5
	610	SGMR	47	GB	1755.3	1755.8	3.0	74.0			QL=6 ST=2 TYP=5
	2695	SGMR	47	GB	1755.3	1756.1	1.0	99.0			QL=6 ST=2 TYP=5
	2695	PALE	47	GB	1755.3	1756.1	1.0	99.0			QL=6 ST=2 TYP=5
	4995	SGMR	47	GB	1755.3	1756.1	2.0	119.0			QL=6 ST=2 TYP=5
	410	PALE	47	GB	1755.5	1755.6	1.0	54.0			QL=6 ST=2 TYP=5
	4995	PALE	47	GB	1755.5	1756.1	2.0	119.0			QL=6 ST=2 TYP=5
	1415	SGMR	47	GB	1755.5	1756.1	1.0	81.0			QL=6 ST=2 TYP=5
	8800	SGMR	47	GB	1755.6	1756.1	3.0	100.0			QL=6 ST=2 TYP=5
	1415	PALE	47	GB	1755.8	1756.1	1.0	52.0			QL=6 ST=2 TYP=5
	410	SGMR	4	S/F	1755.8	1756.1	3.0	34.0			QL=6 ST=2 TYP=3
	8800	PALE	47	GB	1755.8	1756.1	2.0	110.0			QL=6 ST=2 TYP=5
	15400	PALE	8	S	1755.8	1756.1	1.0	43.0			QL=6 ST=2 TYP=3
	15400	SGMR	47	GB	1756.0	1756.1	2.0	58.0			QL=6 ST=2 TYP=5
	9400	HUAN	29	PBI	1758.4	1758.4	30.8	13.7	3.9		R
	4995	PALE	8	S	1815.6	1815.8	1.0	20.0			QL=6 ST=3 TYP=3
	2800	OTTA	3	S	1815.9	1816.1	1.0	15.0	7.5		
	9400	HUAN	21	GRF	1850.2	1902.5	43.5	12.0	7.9		R

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
21	4995	PALE	47	GB	1859.0	1859.8	5.0	62.0			QL=6 ST=2 TYP=5
	2800	OTTA	1	S	1859.0	1900.0	1.5	3.0	1.5		
	2800	OTTA	21	GRF	1859.0	1920.0	60.0	4.0	1.8		
	9400	HUAN	3	S	1859.1	1859.9	2.1	61.7	25.0		R
	8800	PALE	47	GB	1859.3	1859.8	2.0	64.0			QL=6 ST=2 TYP=5
	4995	SGMR	4	S/F	1859.3	1859.8	4.0	50.0			QL=6 ST=2 TYP=3
	8800	SGMR	8	S	1859.5	1859.8	1.0	48.0			QL=6 ST=2 TYP=3
	15400	SGMR	8	S	1859.5	1859.8	2.0	20.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	1859.6	1859.8	1.0	31.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	2146.0	2148.3	6.0	37.0	5.0		
	3750	TYKW	20	GRF	2253.0	2259.0	40.0	2.0	1.0		
	3750	TYKW	21	GRF	2340.0	2353.0	45.0	3.0	1.0		
22	200	GORK	44	NS	0426.0E		455.00		15.0		
	100	GORK	43	NS	0542.0		140.0		100.0		
	29	UPIC	43	NS	0555.2	0557.7U	502.6				
	204	IZMI	43	NS	0600.0		360.00	30.0			
	33	UPIC	43	NS	0655.5		442.1				
	260	ONDR	44	NS	0659.0E	1415.0U	490.00	16.0U			
	127	TORN	44	NS	0700.0E	0836.1	480.00	140.0	5.0		V1
	245	SGMR	43	NS	1104.0	1901.0	692.00	210.0			QL=6 ST=2 TYP=1
	100	HIRA	44	NS	2037.0E	0034.0	730.00	50.0	25.0		ML
	200	HIRA	44	NS	2037.0E	2246.0	730.00	55.0	15.0		ML
	410	LEAR	43	NS	2245.0	0723.8	691.00	23.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2245.0	0830.3	691.00	320.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.00		15.0		
	9400	TYKW	20	GRF	0000.0	0009.0	120.0	6.0	2.0		
	3750	TYKW	20	GRF	0120.0	0135.5	50.0	4.0	1.5		
	9395	PEKG	1	S	0218.0	0218.3	1.0	12.6	2.3		
	3750	TYKW	5	S	0236.0	0238.5	10.0	2.0	.7		
	3750	TYKW	20	GRF	0305.0	0319.0	55.0	3.0	1.5		
	9395	PEKG	5	S	0314.0	0323.3	12.0	9.3	1.7		
	1000	TYKW	5	S	0344.7	0345.2	2.0	3.0	.7		
	9395	PEKG	1	S	0415.0	0416.0	4.0	6.6	.1		
	9400	TYKW	21	GRF	0430.0	0530.0	150.0	4.0	2.0		
	3750	TYKW	20	GRF	0432.0	0443.0	30.0	3.0	1.0		
	2000	TYKW	20	GRF	0438.0	0445.0	40.0	2.0	1.0		
	245	LEAR	47	GB	0508.0	0508.1	376.4	139.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	0508.0	0508.1	376.4	8.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0515.0	0519.0	11.0	3.0	1.0		
	9400	TYKW	45	C	0518.0	0519.0	5.0	3.0	1.0		
	6100	KISV	1	S	0518.6	0519.0	2.0	3.0			
	9100	GORK	21	GRF	0518.8	0603.8	80.0	20.0			
	3750	TYKW	28	PRE	0527.0	0552.0	28.5	3.0	1.5		
	650	GORK	23	GRF	0537.4	0613.0	89.8	5.0			
	950	GORK	23	GRF	0548.4	0633.0	76.00	3.0			
	2000	TYKW	28	PRE	0550.0	0552.0	5.5	3.0	1.5		
	1000	TYKW	28	PRE	0550.0	0552.2	5.5	4.0	1.0		
	100	GORK	41	F	0550.1	0551.8	10.5	70.00			
	100	GORK			0550.1	0555.9		890.00			
	100	GORK			0550.1	0600.3		7560.00			
	650	GORK	28	PRE	0550.5	0551.9	3.8	3.0			
	9400	TYKW	28	PRE	0555.0	0557.3	5.0	19.0	7.0		
	9395	PEKG	45	C	0555.0	0600.6	29.0	162.0	8.3		
	100	HIRA	46	C	0555.3	0555.3	3.3	7400.0	640.0		WL
	500	HIRA	46	C	0555.3	0555.7	6.0	60.0	20.0		WL
	200	HIRA	46	C	0555.3	0556.0	3.0	160.0	67.0		WL
	1415	LEAR	47	GB	0555.3	0556.1	6.0	100.0			QL=6 ST=2 TYP=5
	245	LEAR	47	GB	0555.3	0556.1	6.0	119.0			QL=6 ST=2 TYP=5
	500	HIRA			0555.3	0600.0		40.0			ML
	950	GORK	46	C	0555.4	0555.8	6.1	32.0			
	2950	GORK	46	C	0555.4	0556.0	5.8	33.0			
	650	GORK	46	C	0555.4	0556.0	6.2	32.0			
	200	GORK	41	F	0555.4	0556.8	6.5	470.0			
	2950	GORK			0555.4	0557.2		68.0			
	200	GORK			0555.4	0557.9		140.0			
	650	GORK			0555.4	0600.1		125.0			
	200	GORK			0555.4	0600.2		220.0			
	950	GORK			0555.4	0600.3		157.0			
	2950	GORK			0555.4	0600.5		150.0			

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Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
22	410	LEAR	47 GB	0555.5	0556.0	5.0	79.0			QL=6 ST=2 TYP=5
	610	LEAR	47 GB	0555.5	0556.0	6.0	69.0			QL=6 ST=2 TYP=5
	1000	TYKW		0555.5	0556.1		80.0			
	2695	LEAR	47 GB	0555.5	0557.1	9.0	100.0			QL=6 ST=2 TYP=5
	2000	TYKW	45 C	0555.5	0557.2	7.5	124.0	25.0		
	3750	TYKW	45 C	0555.5	0557.3	4.5D	56.0	18.0D		
	6100	KISV	28 PRE	0555.5	0557.3	4.0	20.0			
	1000	TYKW	45 C	0555.5	0559.8U	4.5D	116.0	28.0D		
	2695	ATHN	47 GB	0555.5	0600.3	8.0	160.0			QL=5 ST=2 TYP=5
	2000	TYKW		0555.5	0600.4		74.0			
	1415	ATHN	47 GB	0555.5	0600.5	8.0	85.0			QL=5 ST=2 TYP=5
	4995	ATHN	47 GB	0555.5	0600.5	8.0	210.0			QL=5 ST=2 TYP=5
	8800	ATHN	47 GB	0555.5	0600.5	8.0	139.0			QL=5 ST=2 TYP=5
	1415	MANI	46 C	0555.5	0600.5	7.3	88.8	29.6		
	2840	PEKG	45 C	0555.5	0600.7	26.5	143.0	7.4		
	4995	LEAR	47 GB	0555.8	0557.1	9.0	44.0			QL=6 ST=2 TYP=5
	15000	KISV	28 PRE	0556.0	0557.5	4.0	12.0			
	2695	MANI	45 C	0556.0	0600.8	6.8	136.8	45.6		
	8800	LEAR	47 GB	0556.1	0557.1	8.0	26.0			QL=6 ST=2 TYP=5
	15400	LEAR	47 GB	0556.1	0557.5	8.0	11.0			QL=6 ST=2 TYP=5
	606	MANI	46 C	0556.5	0600.3	5.5	360.8	120.3		
	4995	MANI	45 C	0556.5	0600.8	6.5	282.5	94.2		
	8800	MANI	45 C	0556.5	0600.9	7.5	232.1	77.4		
	9100	GORK	1 S	0557.0	0557.4	1.8	15.0			
	17000	NOBE	3 S	0557.4	0600.5	3.2U	80.0			R
	6100	KISV	4 S/F	0559.6	0600.5	2.0	140.0			
	17000	NOBE	29 PBI	0559.6	0602.6	27.0	22.0			0
	9100	GORK	3 S	0559.8	0600.5	3.6	187.0			
	9400	TYKW	5 S	0600.0	0600.5	3.5	180.0	55.0		
	3100	CRIM	1 S	0600.0	0600.5	2.0	64.0	21.0		
	15000	KISV	8 S	0600.0	0600.5	1.0	150.0			
	3000	IZMI	5 S	0600.0	0601.0	2.5	156.0	100.0		
	3000	IZMI	29 PBI	0600.0	0610.0	13.0D	12.0			
	15000	KISV	29 PBI	0601.0	0601.0	23.0	60.0			
	2950	GORK	29 PBI	0601.2	0601.4	23.5	22.0			
	6100	KISV	29 PBI	0601.6	0611.6	23.0	30.0			
	3750	TYKW	30 PBI	0603.0E		35.0D	9.0D	5.0D		
	2000	TYKW	30 PBI	0603.0		30.0	4.0	1.5		
	1000	TYKW	30 PBI	0603.0E		70.0D	3.0D	1.5D		
	9400	TYKW	29 PBI	0603.5		25.0	13.0	6.0D		
	1000	TYKW	45 C	0605.7	0605.9	1.5	5.0	1.0		
	3750	TYKW	5 S	0608.0	0609.5	6.0	5.0	1.5		
	2000	TYKW	5 S	0608.5	0609.7	3.0	2.5	1.0		
	204	IZMI	4 S/F	0630.0	0633.2	4.0	120.0	100.0		
	3750	TYKW	21 GRF	0642.0	0706.0	40.0	4.0	2.0		
	3750	TYKW	45 C	0650.0	0653.3	5.0	7.0	1.5		
	2950	GORK	1 S	0652.8	0653.3	.9	2.2	1.1		
	6100	KISV	2 S/F	0652.8	0653.3	1.0	3.0			
	2000	TYKW	45 C	0702.0	0704.0	6.0	6.0	1.5		
	1000	TYKW	45 C	0702.0	0705.7	6.0	16.0	4.0		
	1415	LEAR	4 S/F	0705.6	0705.8	60.0	19.0			QL=6 ST=2 TYP=3
	3750	TYKW	5 S	0730.0	0735.0	25.0	3.0	1.5		
	9395	PEKG	45 C	0731.0	0732.0	3.0	8.8	2.1		
	9100	GORK	20 GRF	0809.0	0827.0	30.8	11.0			
	6100	KISV	3 S	0824.0	0826.6	4.0	6.0			
	113	POTS	8 S	0835.8	0835.8	.4	200.0	70.0		
	410	LEAR	8 S	0909.3	0909.6	1.0	34.0			QL=6 ST=2 TYP=3
	245	LEAR	49 GB	0909.5	0909.8	1.0	1699.0			QL=6 ST=2 TYP=6
	200	GORK	8 S	0909.5	0909.9	.9	230.0			
	100	GORK	8 S	0909.6	0910.0U	1.0	140.0D			
	127	TORN	8 S	0909.6	0910.0	1.2	510.0	260.0		
	234	POTS	4 S/F	0909.7	0909.8	.4	1700.0	340.0		III
	113	POTS	4 S/F	0909.7	0910.1	.8	1200.0	100.0		III
	204	IZMI	45 C	0910.0	0910.4	1.0	800.0	600.0		
	430	KRAK	8 S	0911.3	0911.4	.4	62.0			
	6100	KISV	3 S	0923.0	0923.5	1.5	4.0			
	430	KRAK	8 S	0941.1	0941.1	.2	17.0			
	430	KRAK	8 S	0958.8	0958.8	.1	14.0			
	100	GORK	46 C	1007.5	1007.7	1.2	150.0D			
	100	GORK		1007.5	1008.0		150.0D			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
22	930	BORD	8	S	1019.2	1019.2	.2	14.0	2.0		
	536	ONDR	40	F	1145.9	1147.0	2.8	13.0	6.0		
	113	POTS	4	S/F	1205.1	1205.1	.4	120.0	4.0		
	113	POTS	42	SER	1347.2	1416.2	32.0	600.0	1.0		III
	930	BORD	46	C	1355.0	1355.5	.7	75.0	9.0		
	808	ONDR	1	S	1355.2	1355.8	1.1	30.0	27.0		
	2800	OTTA	20	GRF	1400.0	1417.0	85.00	6.4			
	9500	POTS	20	GRF	1414.0	1419.0	23.0				
	3000	POTS	3	S	1415.0	1416.5	4.3	10.0			
	234	POTS	8	S	1415.9	1415.9	.1	625.0	200.0		III
	1470	POTS	3	S	1416.0	1416.5	2.0	13.0			
	1415	SGMR	4	S/F	1416.3	1416.5	10.0	22.0			QL=6 ST=2 TYP=3
	4995	SGMR	4	S/F	1416.3	1416.5	40.0	13.0			QL=6 ST=2 TYP=3
	2695	SGMR	4	S/F	1416.6	1416.8	10.0	17.0			QL=6 ST=2 TYP=3
	930	BORD	46	C	1543.3	1545.2	2.7	30.0	3.0		
	2800	OTTA	21	GRF	1620.0	1630.0	30.0	3.6	2.0		
	410	SGMR	8	S	1623.8	1624.1	1.0	20.0			QL=6 ST=2 TYP=3
	4995	SGMR	4	S/F	1624.3	1624.3	400.0	20.0			QL=6 ST=2 TYP=3
	2695	SGMR	4	S/F	1624.6	1626.1	100.0	19.0			QL=6 ST=2 TYP=3
	2800	OTTA	8	S	1626.1	1626.1	.1	6.8			
	930	BORD	46	C	1654.0	1654.2	3.0	63.0	9.0		
	610	SGMR	47	GB	1654.0	1654.5	1.0	110.0			QL=6 ST=2 TYP=5
	2800	OTTA	2	S/F	1654.2	1655.0	2.0	6.8	3.4		
	410	SGMR	8	S	1654.6	1654.8	1.0	29.0			QL=6 ST=2 TYP=3
	2800	OTTA	21	GRF	1820.0	1824.0	50.0	3.4			
	2800	OTTA	3	S	1834.0	1834.8	3.0	27.4	9.0		
	2695	SGMR	8	S	1834.8	1835.1	1.0	36.0			QL=6 ST=2 TYP=3
	2695	PALE	4	S/F	1835.0	1835.1	10.0	30.0			QL=6 ST=3 TYP=3
	4995	SGMR	4	S/F	1835.0	1835.3	723.2	16.0			QL=6 ST=2 TYP=3
	8800	SGMR	4	S/F	1835.1	1835.1	10.0	17.0			QL=6 ST=2 TYP=3
	1415	PALE	4	S/F	1835.1	1835.5	10.0	17.0			QL=6 ST=3 TYP=3
	1415	SGMR	4	S/F	1835.1	1835.5	100.0	20.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	1857.0	1858.0	2.0	2.6	1.3		
	1415	SGMR	4	S/F	1929.0	1929.1	1000.0	45.0			QL=6 ST=2 TYP=3
	410	SGMR	47	GB	1929.3	1929.6	10.0	110.0			QL=6 ST=2 TYP=5
	610	SGMR	8	S	1929.3	1929.6	1.0	39.0			QL=6 ST=2 TYP=3
	2800	OTTA	20	GRF	2010.0	2025.0	35.0	3.2	1.8		
	9400	HUAN	22	GRF	2012.8	2032.0	43.4	6.8	4.7		0
	3750	TYKW	20	GRF	2205.0	2254.0	100.0	5.0	2.0		
	1000	TYKW	45	C	2345.0	0021.3	100.0	9.0	3.0		
23	200	GORK	44	NS	0437.0E		298.0D		15.0		
	100	GORK	44	NS	0439.0E		296.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0D	30.0			
	127	TORN	44	NS	0700.0E	0937.4	480.0D	170.0	4.0		V1
	260	ONDR	44	NS	0810.0E		407.0D				
	245	SGMR	43	NS	1104.0	2101.1	694.0D	130.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.0D		5.0		
	9400	TYKW	21	GRF	0055.0	0132.0	100.0	3.0	1.5		
	410	LEAR	4	S/F	0109.0	0109.1	356.4	30.0			QL=6 ST=2 TYP=3
	245	LEAR	49	GB	0109.0	0109.1	356.4	1199.0			QL=6 ST=2 TYP=6
	3750	TYKW	45	C	0138.0	0140.7	17.0	11.0	3.0		
	2000	TYKW	45	C	0139.0	0140.3	5.0	8.0	3.0		
	9400	TYKW	5	S	0139.0	0141.0	15.0	6.0	2.0		
	1000	TYKW	45	C	0140.0	0141.5	2.5	5.0	1.0		
	17000	NOBE	1	S	0201.9	0202.3	1.0	17.0			R
	17000	NOBE	1	S	0211.3	0212.0	1.5	9.0			0
	17000	NOBE	1	S	0235.6	0236.0	1.5	9.0			0
	9395	PEKG	1	S	0312.0	0312.5	1.0	10.8	.4		
	3750	TYKW	20	GRF	0325.0	0340.0	65.0	3.0	1.0		
	2000	TYKW	20	GRF	0325.0	0345.0	60.0	2.0	1.0		
	9400	TYKW	5	S	0328.8	0329.1	1.0	4.0	2.0		
	17000	NOBE	1	S	0328.9	0329.1	1.0	26.0			R
	15400	LEAR	4	S/F	0329.0	0329.1	80.0	21.0			QL=6 ST=2 TYP=3
	9400	TYKW	28	PRE	0505.0	0516.0	11.0	6.0	3.0		
	3750	TYKW	28	PRE	0509.0	0511.3	6.0	3.0	1.0		
	2950	GORK	21	GRF	0509.7	0530.0	102.0	11.0			
	9100	GORK	21	GRF	0510.2	0525.3	410.0D	38.0			
	17000	NOBE	7	C	0513.9	0519.8	8.9	65.0			R
	15000	KISV			0515.0	0518.5		66.0			

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23	15000	KISV			0515.0	0518.9		68.0			
	3750	TYKW	45	C	0515.0	0519.6	15.0	42.0	20.0		
	15000	KISV	46	C	0515.0	0519.8	13.0	70.0			
	15000	KISV			0515.0	0520.5		70.0			
	9395	PEKG	45	C	0515.0	0520.7	49.0	72.5	9.1		
	15000	KISV			0515.0	0521.5		61.0			
	2000	TYKW	45	C	0515.0	0525.4	15.0	32.0	14.0		
	6100	KISV			0516.0	0518.6		41.0			
	6100	KISV			0516.0	0519.0		42.0			
	9400	TYKW	45	C	0516.0	0519.8	12.0	86.0	43.0		
	6100	KISV	46	C	0516.0	0519.8	18.0	4.3			
	6100	KISV			0516.0	0520.5		40.0			
	6100	KISV			0516.0	0521.6		36.0			
	8800	LEAR	47	GB	0516.8	0519.6	12.0	83.0			QL=6 ST=2 TYP=5
	9100	GORK	46	C	0516.9	0518.5	6.2	76.0			
	6100	GORK			0516.9	0519.6		75.0			
	2840	PEKG	45	C	0517.0	0519.0	26.0	39.9	3.8		
	4995	LEAR	47	GB	0517.1	0519.8	11.0	57.0			QL=6 ST=2 TYP=5
	15400	LEAR	47	GB	0517.1	0519.8	11.0	61.0			QL=6 ST=2 TYP=5
	2695	LEAR	4	S/F	0517.3	0519.0	11.0	29.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	0517.5	0518.0	10.0	4.5	1.0		
	4995	MANI	22	GRF	0517.5	0520.2	10.0	72.0	24.0		
	2950	GORK	45	C	0517.7	0519.1	10.5	22.0			
	2695	MANI	22	GRF	0517.7	0520.2	11.3	35.8	11.9		
	2950	GORK			0517.7	0525.2		19.0			
	8800	MANI	22	GRF	0518.0	0520.2	9.0	76.8	25.6		
	1415	LEAR	4	S/F	0518.6	0518.6	10.0	13.0			QL=6 ST=2 TYP=3
	17000	NOBE	30	PBI	0522.7	0522.8	47.0	30.0			R
	500	HIRA	46	C	0523.2	0523.6	3.3	50.0	20.0		WL
	500	HIRA			0523.2	0525.0		45.0			WL
	410	LEAR	4	S/F	0523.5	0523.6	3.0	41.0			QL=6 ST=2 TYP=3
	1415	MANI	20	GRF	0524.0	0526.3	4.2	10.1	3.4		
	9400	TYKW	29	PBI	0528.0		155.0	21.0	7.0		
	3750	TYKW	29	PBI	0530.0		135.0	11.0	6.0		
	2000	TYKW	29	PBI	0530.0		100.0	6.0	2.5		
	17000	NOBE	1	S	0544.2	0544.3	.7	30.0			0
	17000	NOBE	1	S	0715.1	0715.6	1.0	26.0			0
	2950	GORK	1	S	0723.2	0723.7	.9	3.2			
	610	LEAR	8	S	0723.8	0723.8	1.0	28.0			QL=6 ST=2 TYP=3
	15000	KISV	32	ABS	0724.0	0736.0	21.0	13.0			
	15000	KISV	8	S	0745.0	0746.8U	3.5	85.00			
	11800	BERN	3	S	0745.8	0746.8	3.0	49.0			
	19600	BERN	4	S/F	0745.8	0746.8	3.5	105.0			
	17000	NOBE	4	S/F	0746.3	0746.8	2.0	125.0			R
	15400	LEAR	47	GB	0746.3	0746.8	1.0	119.0			QL=6 ST=2 TYP=5
	610	LEAR	8	S	0746.8	0746.8	1.0	28.0			QL=6 ST=3 TYP=3
	2950	GORK	1	S	0746.8	0748.0	2.6	3.2			
	410	LEAR	8	S	0815.8	0816.0	1.0	17.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0815.8	0816.0	1.0	47.0			QL=6 ST=2 TYP=3
	430	KRAK	8	S	0836.0	0836.0	.2	22.0			
	410	LEAR	4	S/F	0839.3	0839.5	10.0	11.0			QL=6 ST=3 TYP=3
	245	LEAR	4	S/F	0839.3	0839.5	10.0	32.0			QL=6 ST=3 TYP=3
	810	KRAK	41	F	0841.7	0844.5	4.6	92.0			
	8400	BERN	45	C	0851.8	0856.0	20.0	37.0			
	11800	BERN	45	C	0851.8	0856.0	20.0	39.0			
	6100	KISV	4	S/F	0852.0	0856.0	7.0	14.0			
	9395	PEKG	45	C	0855.0	0856.3	4.00	15.9	3.7		
	9100	GORK	2	S/F	0855.1	0856.0	3.2	28.0			
	8800	LEAR	4	S/F	0855.1	0856.0	4.0	30.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0855.8	0856.0	4.0	13.0			QL=6 ST=2 TYP=3
	430	KRAK	41	F	0920.5	0920.7	4.2	24.0			
	430	KRAK	8	S	0935.2	0935.2	.2	15.0			
	2950	GORK	1	S	0956.4	0956.5	.4	10.9			
	204	IZMI	5	S	0957.0	0957.3	.5	150.0	100.0		
	430	KRAK	8	S	0959.4	0959.4	.2	18.0			
	245	LEAR	47	GB	1008.5	1009.1	1.0	239.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	1009.1	1009.1	100.0	16.0			QL=6 ST=2 TYP=3
	6100	KISV	1	S	1054.8	1056.5	3.0	4.0			
	430	KRAK	8	S	1055.8	1056.0	.6	600.00			
	3000	POTS	8	S	1056.4	1056.5	.5	9.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
23	930	BORD	41	F	1058.3	1058.7	1.2	15.0	2.0		
	1470	POTS	3	S	1058.5	1058.7	.9	7.5			
	204	IZMI	5	S	1130.5	1130.7	.5	150.0	100.0		
	204	IZMI	6	S	1138.5	1138.8	.8	250.0	150.0		
	430	KRAK	27	RF	1257.8	1303.6	16.0	40.0	9.0		
	536	ONDR	8	S	1311.4	1311.5	.3	8.0			
	19600	BERN	3	S	1406.3	1407.2	4.0	239.0			
	8400	BERN	4	S/F	1406.3	1407.4	4.0	35.0			
	11800	BERN	3	S	1406.3	1407.4	4.0	192.0			
	15400	SGMR	47	GB	1406.6	1407.3	2.0	210.0			QL=6 ST=2 TYP=5
	9400	HUAN	3	S	1406.9	1407.7	1.8	65.9	26.4		R
	9500	POTS	3	S	1407.0	1407.5	2.0				
	8800	SGMR	8	S	1407.1	1407.5	1.0	41.0			QL=6 ST=2 TYP=3
	9400	HUAN	29	PBI	1408.7	1408.7	42.4	5.3	1.8		0
	113	POTS	4	S/F	1413.6	1413.6	.9	100.0	25.0		III
	113	POTS	4	S/F	1448.4	1448.7	.5	700.0	50.0		III
	2800	OTTA	1	S	1542.0	1542.1	1.2	3.6	1.8		
	930	BORD	46	C	1542.0	1543.0	1.6	15.0	5.0		
	1415	SGMR	4	S/F	1542.3	1542.5	169.6	50.0			QL=6 ST=2 TYP=3
	2800	OTTA	4	S/F	1846.8	1848.0	5.0	13.2	3.8		
	15400	SGMR	8	S	1940.8	1941.1	2.0	30.0			QL=6 ST=2 TYP=3
	9400	HUAN	1	S	2017.7	2019.2	2.9	21.4	7.5		0
	200	HIRA	24	R	2035.0E	2250.0	730.0D	20.0	14.0		WL
	9400	HUAN	2	S/F	2100.0	2101.5	2.9	12.5	4.6		0
	3750	TYKW	5	S	2213.3	2213.5	.7	4.0	1.5		
	500	HIRA	22	GRF	2300.0	0028.3	120.0	15.0	6.0		ML
	410	LEAR	8	S	2324.1	2324.3	1.0	17.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	2324.3	2324.8	1.0	40.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	2330.8	2331.0	1.0	9.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	2330.8	2331.0	1.0	300.0			QL=6 ST=2 TYP=5
	9400	TYKW	5	S	2338.0	2338.7	1.5	9.0	3.0		
	9400	TYKW	5	S	2356.0	2356.3	2.0	11.0	3.0		
	3750	TYKW	5	S	2356.0	2356.3	.6	5.0	1.5		
	2000	TYKW	45	C	2356.0	2356.4	5.0	8.0	2.0		
	2695	PENT	8	S	2356.0	2356.4	.6	8.6			
	9395	PEKG	1	S	2356.0	2356.6	4.0	7.5	2.9		
	2840	PEKG	2	S/F	2356.0	2356.7	5.0	8.3	1.9		
	1000	TYKW	42	SER	2356.3	2357.3	2.5	9.0	.7		
	3750	TYKW	29	PBI	2356.6		30.0	1.5	.7		
24	200	GORK	44	NS	0433.0E		300.0D		35.0		
	100	GORK	44	NS	0511.0E		262.0D		5.0		
	204	IZMI	43	NS	0600.0		360.0D	50.0			
	127	TORN	44	NS	0700.0E	1303.5	480.0D	560.0	7.0		V2
	208	VORO	44	NS	2300.0E		240.0D		7.0		
	9400	TYKW	45	C	0000.0	0008.1	10.0	6.0	2.0D		
	9400	TYKW	45	C	0019.0	0020.7	10.0	12.0	7.0		
	1000	TYKW	45	C	0024.0	0035.2	15.0	5.0	1.0		
	9400	TYKW	30	PBI	0029.0		30.0	5.0	2.0		
	3750	TYKW	5	S	0033.0	0035.1	4.0	16.0	6.0		
	2000	TYKW	45	C	0033.0	0035.2	3.0	16.0	5.0		
	2840	PEKG	5	S	0033.0	0035.3	7.0	22.5	2.6		
	1415	MANI	3	S	0033.7	0035.4	2.8	46.2	15.4		
	2695	MANI	3	S	0033.8	0035.3	2.7	42.6	14.2		
	9400	TYKW	5	S	0034.0	0035.0	4.0	5.0	2.0		
	2695	PENT	3	S	0034.0	0035.1	2.0	15.0	7.2		
	9395	PEKG	1	S	0034.0	0035.3	3.0	7.5	2.3		
	4995	MANI	3	S	0034.5	0035.3	1.5	40.0	13.3		
	2000	TYKW	29	PBI	0036.0		7.0	3.0	1.0		
	3750	TYKW	29	PBI	0037.0		7.0	2.0	.7		
	9400	TYKW	45	C	0149.0	0150.7	6.0	6.0	2.0		
	3750	TYKW	5	S	0150.0	0158.0	20.0	1.5	.7		
	9400	TYKW	5	S	0207.0	0207.4	1.0	4.0	1.0		
	9400	TYKW	5	S	0215.5	0215.9	1.5	7.0	2.0		
	1000	TYKW	5	S	0215.6	0215.8	1.0	5.0	1.0		
	9400	TYKW	5	S	0217.5	0218.2	1.5	7.0	3.0		
	17000	NOBE	20	GRF	0256.0	0348.5	66.0	17.0			R
	9395	PEKG	45	C	0358.0	0359.1	7.0	20.8	2.5		
	9400	TYKW	45	C	0358.0	0359.2	6.0	22.0	6.0		
	3750	TYKW	5	S	0358.0	0359.2	20.0	11.0	4.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
24	2840	PEKG	1	S	0358.5	0359.5	3.0	6.8	1.7		
	2000	TYKW	5	S	0359.0	0359.2	1.0	1.5	.5		
	3750	TYKW	30	PBI	0400.0		4.0	20.0	1.0		
	3750	TYKW	31	ABS	0404.0	0417.0	30.0	-2.0	-1.0		
	9400	TYKW	31	ABS	0404.0	0419.0	30.0	-10.0	-5.0		
	17000	NOBE	20	GRF	0427.4	0439.7	28.0	13.0			R
	9400	TYKW	5	S	0457.5	0458.0	4.5	4.0	2.0		
	3750	TYKW	32	ABS	0502.0	0513.0	21.0	-2.0	-1.0		
	9400	TYKW	31	ABS	0502.0	0513.0	28.0U	-2.0	-1.0		INTERFERENCE
	113	POTS	4	S/F	0624.0	0625.0	3.0	1500.0	100.0		III
	100	GORK	41	F	0635.1	0635.6	2.5	110.0D			
	100	GORK			0635.1	0636.8		110.0D			
	17000	NOBE	1	S	0654.8	0655.2	1.0	31.0			R
	9400	TYKW	5	S	0655.0	0655.2	6.0	10.0	1.5		
	15000	KISV	2	S/F	0655.0	0655.5	2.0	38.0			
	100	GORK	41	F	0712.0	0713.5	41.0	120.0D			
	100	GORK			0712.0	0719.2		120.0D			
	100	GORK			0712.0	0730.6		120.0D			
	100	GORK			0712.0	0737.0		120.0D			
	100	GORK			0712.0	0743.2		120.0D			
	260	ONDR	44		0731.0		459.0D				
	15000	KISV	8	S	0751.0	0751.7	1.0	31.0			
	17000	NOBE	1	S	0751.7	0751.8	1.0	42.0			R
	204	IZMI	42	SER	0827.0	0833.0	52.0	225.0			
	9100	GORK	22	GRF	0842.7	0854.1	41.5	18.0			
	6100	KISV	1	S	0846.0	0848.0	2.5	6.0			
	6100	KISV	2	S/F	0853.0	0854.0	2.5	4.0			
	33	UPIC	42	SER	0936.8	0936.8	172.3				
	113	POTS	8	S	0936.8	0936.9	.2	175.0	60.0		III
	29	UPIC	42	SER	0936.8	0937.0	172.4				
	430	KRAK	8	S	0950.1	0950.1	.2	15.0			
	430	KRAK	8	S	1028.9	1028.9	.2	23.0			
	204	IZMI	41	F	1037.0	1038.2	5.1	114.0			
	430	KRAK	8	S	1037.6	1037.6	.2	45.0			
	9100	GORK	20	GRF	1115.5	1154.0	45.0D	12.0			
	536	ONDR	4	S/F	1141.3	1141.6	1.1	16.0			
	204	IZMI	41	F	1145.5	1146.0	2.5	120.0			
	810	KRAK	8	S	1203.7	1203.7	.2	18.0			
	113	POTS	42	SER	1217.0	1325.0	71.0	700.0	2.0		
	9400	HUAN	1	S	1248.8	1249.6	2.7	22.4	9.7		R
	6100	KISV	2	S/F	1249.0	1250.0	5.0	8.0			
	9500	POTS	22	GRF	1249.0	1255.7	11.0				
	8400	BERN	3	S	1249.3	1249.7	3.0	30.0			
	9400	HUAN	29	PBI	1251.5	1251.5	6.9	8.6	3.7		R
	2800	OTTA	21	GRF	1340.0		80.0	4.0			
	9400	HUAN	21	GRF	1355.5	1406.5	47.2	15.5	4.8		R
	8400	BERN	46	C	1357.7	1358.2	12.5	50.0			
	11800	BERN	46	C	1357.7	1358.2	12.5	44.0			
	9400	HUAN	8	S	1357.8	1358.3	.9	36.2	13.8		R
	9400	HUAN	1	S	1400.9	1402.0	2.4	22.4	9.3		R
	2650	DWIN	1	S	1401.0U		1.0U	15.0	10.0		
	2800	OTTA			1401.0		1.0D	4.8			
	3000	POTS	3	S	1401.0	1402.3	4.0	23.0			
	8400	BERN	4	S/F	1513.4	1514.0	3.0	24.0			
	11800	BERN	3	S	1513.4	1514.0	3.0	26.0			
	2800	OTTA	20	GRF	1600.0	1605.0	40.0	2.0	1.0		
	9400	HUAN	4	S/F	1622.6	1625.2	4.4	34.5	14.0		0
	8400	BERN	22	GRF	1623.0	1625.2	20.0	38.0			
	19600	BERN	22	GRF	1623.0	1625.2	20.0	44.0			
	11800	BERN	22	GRF	1623.0	1625.2	20.0	63.0			
	9400	HUAN	30	PBI	1626.2	1626.2	26.4	8.6	3.3		0
	9400	HUAN	1	S	1628.8	1630.0	2.0	10.3	3.4		0
	2800	OTTA	20	GRF	1700.0	1707.0	20.0	3.2	1.6		
	9400	HUAN	2	S/F	1704.1	1707.0	2.9U	13.8	6.7		0
	9400	HUAN	3	S	1947.1	1948.3	2.7	43.1	14.6		L
	9400	HUAN	22	GRF	1958.2	2015.7	60.4	19.0	10.3		0
	2800	OTTA	20	GRF	2000.0	2017.0	55.0	4.2	2.0		
	200	HIRA	24	R	2035.0E	0050.0	255.0D	20.0	15.0		WL
	2800	OTTA	21	GRF	2140.0	2201.0	90.0	8.6	4.3		
	9400	TYKW	45	C	2142.0	2147.4	9.0	88.0	22.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
24	3750	TYKW	21	GRF	2142.0	2200.3	90.0	12.0	5.0		
	3750	TYKW	45	C	2142.5	2147.4	7.5	24.0	5.0		
	9400	HUAN	45	C	2143.8	2147.2	8.1	98.3	27.8		R
	17000	NOBE	7	C	2144.3	2348.5	204.2U	109.0			O
	2800	OTTA	1	S	2144.5	2145.0	1.0	2.0			
	2800	OTTA	4	S/F	2146.8	2147.4	3.0	21.0	9.8		
	2000	TYKW	5	S	2147.0	2147.5	3.0	8.0	4.0		
	1000	TYKW	45	C	2147.3	2147.7	1.0	4.0	1.0		
	3750	TYKW	29	PBI	2150.0		6.0	3.0	1.5		
	2000	TYKW	20	GRF	2150.0		80.0	4.0	2.0		
	9400	TYKW	30	PBI	2151.0		75.0	20.0	11.0		
	9400	TYKW	45	C	2155.0	2159.6	15.0	15.0	6.0		
	3750	TYKW	5	S	2213.0	2213.7	2.0	1.5	.5		
	9400	TYKW	21	GRF	2315.0	2350.0	120.0	6.0	3.0		
	2000	TYKW	20	GRF	2320.0	2350.0	110.0	2.0	1.0		
25	200	GORK	44	NS	0433.0E		312.0D		10.0		
	204	IZMI	43	NS	0600.0		360.0D	40.0			
	260	ONDR	44	NS	0710.0E	0916.0U	479.0D	14.0U			
	127	TORN	44	NS	0730.0E	1214.5	450.0D	110.0	6.0		V1
	208	VORO	44	NS	2300.0E		240.0D		13.0		
	2695	PENT	3	S	0032.0	0032.8	3.0	11.0	2.8		
	9400	TYKW	20	GRF	0032.0	0034.0	30.0	4.0	2.0		
	17000	NOBE	1	S	0033.0	0033.3	4.0	17.0			O
	9395	PEKG	20	GRF	0121.0	0144.6	35.0	13.8	2.3		
	9400	TYKW	5	S	0127.0	0127.1	1.0	6.0	2.0		
	9400	TYKW	5	S	0131.0	0134.0	8.0	3.0	1.5		
	9400	TYKW	21	GRF	0131.0	0227.0	110.0	10.0	4.0		
	3750	TYKW	5	S	0138.0	0143.0	12.0	5.0	2.0		
	9400	TYKW	45	C	0139.0	0143.0	14.0	10.0	5.5		
	2840	PEKG	20	GRF	0140.0	0143.0	8.0	2.9	1.1		
	17000	NOBE	20	GRF	0140.5	0143.4	32.0	17.0			R
	9395	PEKG	21	GRF	0156.0	0228.2	93.0	13.2	.3		
	1000	TYKW	45	C	0158.0	0209.2	40.0	23.0	1.5		
	2000	TYKW	20	GRF	0200.0	0238.5	140.0	3.0	1.0		
	9400	TYKW	5	S	0202.0	0206.0	7.0	4.0	1.5		
	9395	PEKG	1	S	0217.0	0218.0	2.0	12.1	1.1		
	9400	TYKW	5	S	0217.5	0217.8	1.0	12.0	3.0		
	3750	TYKW	5	S	0224.0	0229.0	20.0	3.0	1.5		
	9400	TYKW	5	S	0256.8	0257.2	4.0	4.0	1.5		
	9400	TYKW	20	GRF	0350.0	0352.5	50.0	5.0	2.0		
	3750	TYKW	5	S	0417.0	0421.0	15.0	2.0	1.0		
	9100	GORK	21	GRF	0427.0E	0510.5	210.0D	22.0			
	3750	TYKW	21	GRF	0450.0	0522.3	160.0	4.0	1.5		
	9400	TYKW	21	GRF	0500.0	0550.0	145.0	4.0	2.0		
	2950	GORK	20	GRF	0506.0	0640.5	120.0	4.3			
	2000	TYKW	21	GRF	0510.0	0535.0	120.0	1.5	.7		
	9400	TYKW	5	S	0522.0	0522.3	1.0	2.0	1.0		
	1000	TYKW	5	S	0524.0	0524.3	1.0	2.0	.7		
	1000	TYKW	5	S	0530.0	0530.4	2.0	1.5	.7		
	17000	NOBE	20	GRF	0604.8	0611.9	11.0	17.0			O
	3750	TYKW	5	S	0607.0	0607.2	1.5	3.0	1.0		
	3750	TYKW	5	S	0636.0	0636.6	2.0	1.5	.5		
	8400	BERN	4	S/F	0638.5	0640.2	5.0	27.0			
	11800	BERN	4	S/F	0638.5	0640.2	5.0	29.0			
	17000	NOBE	1	S	0638.8	0640.3	3.0	17.0			O
	6100	KISV	1	S	0639.0	0640.2	3.0	11.0			
	15000	KISV	1	S	0639.0	0640.2	3.0	15.0			
	9400	TYKW	5	S	0639.0	0640.3	6.0	18.0	4.0		
	9395	PEKG	5	S	0639.0	0640.4	11.0	16.0	.3		
	3750	TYKW	5	S	0639.5	0640.5	4.0	8.0	2.0		
	9100	GORK	1	S	0639.7	0640.3	1.4	15.0	7.0		
	2840	PEKG	1	S	0640.0	0640.7	2.0	2.9	1.4		
	650	GORK	4	S/F	0645.1	0646.6	2.3	15.0			
	950	GORK	2	S/F	0645.4	0646.5	1.9	9.0			
	1000	TYKW	45	C	0646.4U	0646.7	.9U	8.0	3.0		INTERFERENCE
	2000	TYKW	5	S	0646.6	0646.7	.7	3.0	1.0		
	200	GORK	4	S/F	0646.6	0646.9	1.5	125.0			
	204	IZMI	4	S/F	0646.8	0648.0	1.2U	89.0	60.0		
	536	ONDR	4	S/F	0758.7	0759.0	1.3	16.0	10.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
25	430	KRAK	4	S/F	0904.6	0908.2	3.6	67.0	12.0		
	430	KRAK	8	S	0924.5	0924.6	.3	16.0			
	430	KRAK	45	C	0937.8	0938.3	3.3	660.0D	16.0		
	430	KRAK	8	S	1003.6	1003.6	.3	39.0			
	930	BORD	46	C	1004.4	1004.7	.4	59.0	4.0		
	9100	GORK	1	S	1004.5	1004.7	.9	23.0	12.0		
	536	ONDR	8	S	1004.9	1004.9	.3	25.0			
	430	KRAK	45	C	1007.9	1010.5	5.1	100.0	12.0		
	29	UPIC	42	SER	1013.2	1206.5	121.9				
	33	UPIC	42	SER	1013.3	1206.1	121.7				
	204	IZMI	8	S	1013.5	1013.5	.2	240.0	120.0		
	234	POTS	8	S	1013.5	1013.7	.3	950.0	300.0		
	9100	GORK	1	S	1036.2	1036.9	1.5	10.0	5.0		
	234	POTS	4	S/F	1039.7	1039.8	.3	150.0	30.0		
	204	IZMI	41	F	1040.0	1040.3	.5	150.0			
	430	KRAK	45	C	1058.0U	1058.0U	2.0U	410.0	30.0		
	234	POTS	4	S/F	1131.3	1131.5	.5	170.0	35.0		
	430	KRAK	45	C	1132.4	1133.0	4.2	340.0	25.0		
	430	KRAK			1132.4	1135.0					
	430	KRAK	5	S	1218.4	1218.9	1.2	84.0	20.0		
	810	KRAK	27	RF	1223.5	1225.0	4.1	18.0	8.0		
	1470	POTS	4	S/F	1223.5	1226.8	4.5	23.0			
	930	BORD	46	C	1224.0	1224.8	4.0U	25.0	7.0		
	430	KRAK	27	RF	1224.0	1228.0	6.6	22.0	6.0		
	808	ONDR	2	S/F	1224.4	1225.2	4.8	10.0	8.0		
	2650	DWIN	4	S/F	1225.0U		1.0U	160.0	80.0		
	2800	OTTA	4	S/F	1225.0	1225.3	3.0	83.0	20.0		
	3000	POTS	4	S/F	1225.0	1225.6	4.0	114.0			
	9500	POTS	1	S	1225.0	1227.8	4.0				
	9400	HUAN	1	S	1226.7	1227.6	3.0	13.9	6.1		0
	430	KRAK	45	C	1250.0	1251.6	3.2	240.0	14.0		
	9400	HUAN	21	GRF	1306.4	1318.2	49.4	14.0	5.7		0
	810	KRAK	8	S	1306.6	1306.6	.2	18.0			
	930	BORD	8	S	1333.8	1333.9	.2	37.0	2.0		
	430	KRAK	8	S	1337.5	1338.0	1.3	650.0D			
	9400	HUAN	1	S	1347.6	1348.6	3.4	5.2	2.9		0
	8400	BERN	22	GRF	1412.6	1422.7	20.0U	38.0			
	11800	BERN	22	GRF	1412.6	1422.7	20.0U	40.0			
	9400	HUAN	21	GRF	1415.9	1425.2	15.2	12.2	4.6		R
	9500	POTS	22	GRF	1417.0	1423.0	13.0				
	9400	HUAN	2	S/F	1421.4	1422.6	3.4	26.2	8.1		R
	930	BORD	46	C	1623.0	1627.4	12.0	58.0	6.0		
	2650	DWIN	45	C	1625.0U		10.0U	120.0	50.0		
	2800	OTTA	4	S/F	1625.0	1628.0	5.0	127.0	42.0		
	19600	BERN	45	C	1625.0	1628.4	19.0U	42.0			
	8400	BERN	45	C	1625.0	1628.4	19.0U	124.0			
	11800	BERN	45	C	1625.0	1628.4	19.0U	100.0			
	9400	HUAN	4	S/F	1626.1	1628.3	3.7	85.4	39.6		R
	9400	HUAN	30	PBI	1629.8	1629.8	28.4	17.4	11.7		R
	2800	OTTA	30	PBI	1630.0	1630.0	20.0	10.2	3.4		
	2800	OTTA	3	S	1632.3	1633.0	4.0	42.0	21.0		
	9400	HUAN	2	S/F	1632.3	1633.8	3.4	20.0	10.5		R
	9400	HUAN	1	S	1637.3	1637.5	2.2	12.2	4.4		0
	9400	TYKW	21	GRF	2130.0	2205.0	85.0	4.0	2.0		
	9400	TYKW	5	S	2143.0	2143.4	1.0	6.0	1.5		
	17000	NOBE	1	S	2143.3	2143.5	2.0	21.0			0
	1000	TYKW	45	C	2207.0	2208.2	1.5	6.0	1.5		
	3750	TYKW	5	S	2216.0	2217.0	7.0	2.0	1.0		
	2000	TYKW	5	S	2216.6	2217.1	1.0	3.0	1.0		
	1000	TYKW	45	C	2226.2	2226.3	.8	7.0	2.0		
	3750	TYKW	5	S	2238.0	2245.0	15.0	1.5	.5		
	9400	TYKW	5	S	2244.0	2246.6	7.0	4.0	1.5		
	3750	TYKW	28	PRE	2258.0	2300.0	9.0	1.5	1.0		
	208	VORO	4	S/F	2303.0	2310.0	13.0	210.0			
	3750	TYKW	45	C	2307.0	2318.4	16.0	44.0	10.0		
	2000	TYKW	45	C	2307.0	2318.5	15.0	36.0	9.0		
	1000	TYKW	45	C	2308.0	2318.3	15.0	8.0	2.5		
	9400	TYKW	45	C	2309.0	2318.4	15.0	16.0	8.0		
	2695	PENT	46F	C	2309.0	2318.5	18.0	48.0	11.8		
	2000	TYKW	29	PBI	2322.0		8.0	2.0	1.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
25	3750	TYKW	29	PBI	2323.0		15.0	4.0	2.0		
	9400	TYKW	30	PBI	2324.0		60.0	6.0	2.5		
	1000	TYKW	21	GRF	2325.0	0005.0	140.0	2.0	1.0		
	9400	TYKW	5	S	2337.5	2338.0	2.5	5.0	2.0		
	3750	TYKW	20	GRF	2344.0	2350.0	30.0	3.0	1.0		
	9400	TYKW	5	S	2346.7	2346.9	.8	3.0	1.0		
	2930	VORO	42	SER	2350.0	0043.0	75.0	138.0			
26	200	GORK	44	NS	0420.0E		400.0D		45.0		
	100	GORK	43	NS	0456.0		244.0D		5.0		
	29	UPIC	44	NS	0530.0E		568.7D				
	33	UPIC	44	NS	0530.0E		570.0D				
	204	IZMI	44	NS	0600.0E		360.0D	112.0			
	260	ONDR	44	NS	0656.0E	1235.0U	494.0D	20.0U			
	127	TORN	44	NS	0700.0E	1214.9	480.0D	420.0	23.0		V1
	245	PALE	43	NS	2010.0	2245.1	480.0D	350.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2246.0	2320.8	686.0D	239.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.0D		20.0		
	17000	NOBE	1	S	0005.2	0005.6	3.0	12.0			0
	9400	TYKW	5	S	0011.3	0011.5	.7	6.0	2.0		
	17000	NOBE	7	C	0029.3	0034.3	16.0	70.0			L
	208	VORO	4	S/F	0032.0	0032.0	1.0	250.0			
	3750	TYKW	45	C	0032.0	0032.8	4.0	18.0	6.0		
	2840	PEKG	45	C	0032.0	0032.8	5.0	19.5	1.3		
	2000	TYKW	45	C	0032.0	0032.8	5.0	11.0	2.0		
	1000	TYKW	45	C	0032.0	0032.8	5.0	7.0	2.0		
	9400	TYKW	45	C	0032.0	0034.3	6.0	96.0	2.0		
	9395	PEKG	45	C	0032.0	0034.4	10.0	96.3	8.1		
	3750	TYKW	29	PBI	0036.0		6.0	2.0	1.0		
	9400	TYKW	29	PBI	0038.0		10.0U	4.0	1.5		INTERFERENCE
	2000	TYKW	21	GRF	0055.0	0140.0	105.0	2.0	1.0		
	3750	TYKW	20	GRF	0110.0	0129.0	50.0	3.0	1.0		
	9400	TYKW	20	GRF	0130.0	0136.0	30.0	5.0	2.5		
	9400	TYKW	20	GRF	0204.0	0211.4	35.0	9.0	3.0		
	3750	TYKW	45	C	0204.5	0210.1	11.5	21.0	8.0		
	1000	TYKW	45	C	0205.0	0205.8	10.0	31.0	4.0		
	2000	TYKW	45	C	0205.0	0210.2	11.0	21.0	6.0		
	2840	PEKG	45	C	0205.0	0210.2	16.0	19.5	2.6		
	9395	PEKG	20	GRF	0207.0	0210.3	13.0	8.3	2.2		
	2000	TYKW	29	PBI	0216.0		15.0	2.0	1.0		
	3750	TYKW	29	PBI	0216.0		15.0	4.0	2.0		
	3750	TYKW	5	S	0245.0	0250.0	12.0	2.0	1.0		
	2000	TYKW	21	GRF	0330.0	0400.0	280.0	2.0	1.0		
	3750	TYKW	28	PRE	0332.0	0335.6	10.0	2.0	1.0		
	4995	MANI	3	S	0334.8	0336.0	3.2	42.4	14.1		
	17000	NOBE	3	S	0335.0	0335.5	4.5	90.0			L
	9400	TYKW	5	S	0335.0	0335.6	7.0	108.0	32.0		
	8800	MANI	3	S	0335.0	0335.8	5.0	114.0	38.0		
	35000	NAGO	5	S	0335.0	0336.0	3.0	20.0			
	1000	TYKW	5	S	0340.0	0340.6	2.0	1.5	.5		
	3750	TYKW	5	S	0342.0	0348.7	10.0	6.0	3.0		
	9400	TYKW	45	C	0343.0	0348.7	7.0	16.0	7.0		
	9400	TYKW	29	PBI	0350.0		20.0	8.0	3.0		
	3750	TYKW	30	PBI	0352.0		35.0	3.0	1.5		
	1000	TYKW	5	S	0403.0	0405.5	5.0	3.0	1.0		
	500	HIRA	3	S	0408.5	0410.1	3.0	8.0	4.0		SL
	1000	TYKW	5	S	0409.0	0410.3	3.0	5.0	1.5		
	9400	TYKW	45	C	0412.0	0414.8	6.0	4.0	2.0		
	9400	TYKW	45	C	0420.0	0422.4	4.0	39.0	7.0		
	2840	PEKG	1	S	0421.0	0422.3	3.0	7.1	1.1		
	9395	PEKG	45	C	0421.0	0422.5	5.0	33.3	3.3		
	3750	TYKW	45	C	0421.5	0422.1	3.5	10.0	3.0		
	2000	TYKW	5	S	0421.8	0422.3	3.0	5.0	2.0		
	1000	TYKW	45	C	0421.8	0422.3	1.2	65.0	6.0		
	17000	NOBE	1	S	0421.9	0422.5	1.0	34.0			L
	1415	MANI	3	S	0422.4	0422.5	.6	11.0	3.7		
	2695	MANI	3	S	0422.4	0422.5	.6	15.2	5.1		
	4995	MANI	3	S	0422.4	0422.7	1.4	26.5	8.8		
	8800	MANI	3	S	0422.4	0423.0	2.0	42.8	14.3		
	9400	TYKW	29	PBI	0424.0		10.0	5.0	2.0		

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26	9400	TYKW	45	C	0446.0	0453.3	11.0	6.0	3.0		
	1000	TYKW	45	C	0447.0	0448.2	7.0	207.0	20.0		
	2950	GORK	21	GRF	0453.0	0707.4	427.0D	13.7			
	1000	TYKW	29	PBI	0454.0		40.0	6.0	1.5		
	9400	TYKW	5	S	0459.5	0500.0	4.0	7.0	2.0		
	3750	TYKW	5	S	0459.5	0500.1	2.5	3.0	1.0		
	9100	GORK	1	S	0459.9	0500.1	.9	5.0			
	3750	TYKW	28	PRE	0537.0	0540.5	10.0	3.0	2.0		
	2000	TYKW	28	PRE	0537.0	0543.0	10.0	2.5	1.5		
	9400	TYKW	5	S	0537.6	0538.1	1.2	12.0	4.0		
	6100	KISV	28	PRE	0537.7	0538.1	1.0	7.0			
	9100	GORK	1	S	0538.7	0539.1	.8	21.0	10.0		
	9395	PEKG	1	S	0539.0	0539.2	1.5	12.2	.1		
	9400	TYKW	28	PRE	0544.0	0547.0	3.0	2.0	1.0		
	6100	KISV	46	C	0546.8	0548.5	8.0	102.0			
	6100	KISV			0546.8	0549.2		102.0			
	3750	TYKW	45	C	0547.0	0548.4	7.0	66.0	15.0		
	2840	PEKG	45	C	0547.0	0548.5	13.0	36.2	3.7		
	4995	MANI	4	S/F	0547.0	0548.7	6.8	132.5	44.2		
	2000	TYKW	45	C	0547.0	0549.2	7.0	60.0	13.0		
	9400	TYKW	45	C	0547.0	0549.2	7.0	445.0	90.0		
	2695	MANI	4	S/F	0547.0	0549.5	3.5	60.8	20.3		
	1415	MANI	4	S/F	0547.0	0549.5	7.0	71.2	23.7		
	9395	PEKG	45	C	0547.0	0549.5	12.0	36.3	20.7		
	8800	MANI	4	S/F	0547.0	0549.8	7.4	390.5	130.2		
	17000	NOBE	47	GB	0547.3	0549.2	5.8	106.0			L
	35000	BERN	47	GB	0547.4	0549.1	6.0U	1410.0			
	950	GORK	46	C	0547.4	0549.1	13.1	112.0			
	19600	BERN	47	GB	0547.4	0549.1	6.0U	1386.0			
	8400	BERN	45	C	0547.4	0549.1	6.0U	367.0			
	11800	BERN	47	GB	0547.4	0549.1	6.0U	756.0			
	500	HIRA	45	C	0547.4	0549.2	7.0	14.0	5.0		WL
	15000	KISV	47	GB	0547.4	0549.2U	7.0	645.0D			
	950	GORK			0547.4	0550.2		60.0			
	35000	NAGO	47	GB	0548.0	0549.0	4.0	540.0			
	9100	GORK	46	C	0548.0	0549.5	5.0	280.0			
	200	GORK	4	S/F	0548.0	0550.1	2.8	440.0D			
	9100	GORK			0548.0	0550.2		430.0			
	2950	GORK	45	C	0548.2	0549.3	3.2	43.0			
	2950	GORK			0548.2	0550.2		39.0			
	650	GORK	4	S/F	0548.4	0550.3	3.6	16.0			
	100	GORK	46	C	0548.5	0548.8	2.7	75.0D			
	100	GORK			0548.5	0550.0		600.0D			
	6100	KISV			0550.5	0551.3		31.0			
	650	GORK	29	PBI	0552.0	0552.0	14.0	7.0	3.5		
	9100	GORK	29	PBI	0553.0	0553.0	62.0	36.0			
	9400	TYKW	29	PBI	0554.0		37.0	4.0	2.0		
	2000	TYKW	29	PBI	0554.0		40.0	4.0	1.5		
	3750	TYKW	29	PBI	0554.0		60.0	5.0	2.5		
	9100	GORK	20	GRF	0605.6	0615.8	39.4	10.0			
	650	GORK	21	GRF	0615.8	0652.0	36.2U	2.5			
	650	GORK	45	C	0619.5	0620.2	3.6	3.0			
	650	GORK			0619.5	0622.0		6.0			
	950	GORK	2	S/F	0619.9	0623.0	3.1U	3.0			
	15000	KISV			0632.0	0632.2		7.0			
	15000	KISV	45	C	0632.0	0633.5	3.0	15.0			
	9400	TYKW	5	S	0632.5	0633.5	3.5	8.0	4.0		
	9395	PEKG	1	S	0633.0	0633.5	8.0	8.3	1.4		
	9400	TYKW	30	PBI	0636.0		25.0	3.0	1.5		
	3750	TYKW	5	S	0703.0	0707.3	7.0	9.0	4.0		
	2840	PEKG	20	GRF	0703.0	0707.5	13.0	9.3	2.1		
	950	GORK	4	S/F	0703.9	0706.2	4.5	15.0			
	650	GORK	41	F	0704.9	0705.3	3.7	25.0			
	650	GORK			0704.9	0706.1		14.5			
	650	GORK			0704.9	0707.5		15.0			
	1000	TYKW	45	C	0705.0	0706.2	4.0	15.0	3.0		
	2000	TYKW	5	S	0705.0	0707.1	8.0	6.0	2.0		
	9395	PEKG	20	GRF	0705.0	0711.1	25.0	7.2	1.9		
	9400	TYKW	20	GRF	0705.0	0713.0	45.0	6.0	3.0		
	6100	KISV	20	GRF	0705.0	0721.0	37.0	5.0			

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26	2950	GORK	1	S	0705.8	0707.4	2.9	4.5			
	930	BORD	46	C	0706.0	0706.3	1.0	19.0	3.0		
	1470	POTS	3	S	0706.0	0706.5	4.0	6.0			
	3000	POTS	1	S	0706.0	0707.3	2.0	6.0			
	3750	TYKW	30	PBI	0710.0		45.0	4.0	2.0		
	2840	PEKG	1	S	0719.0	0722.0	7.0	5.8	2.6		
	650	GORK	23	GRF	0719.5	0950.2	281.0D	5.5			
	3750	TYKW	45	C	0720.0	0722.1	4.0	3.0	1.0		
	2000	TYKW	45	C	0720.0	0736.4	25.0	3.0	1.0		
	3750	TYKW	45	C	0731.0	0733.3	10.0	7.0	2.5		
	950	GORK	22	GRF	0752.8	1015.0	247.0D	9.0			
	536	ONDR	7	C	0809.6	0811.8	10.0	8.0	6.0		
	100	GORK	4	S/F	0810.0	0811.7	3.4	60.0			
	650	GORK	4	S/F	0810.2	0812.9	5.4	11.0	5.0		
	15000	KISV	45	C	0844.4	0845.1	1.5	12.0			
	430	KRAK	49	GB	0931.3	0936.0U	45.0	620.0D	126.0		
	430	KRAK			0931.3	0946.0U		620.0D			
	650	GORK	46	C	0942.4	0944.5	5.4	10.0			
	650	GORK			0942.4	0945.7		15.0			
	9100	GORK	1	S	1020.4	1021.2	1.8	10.0	5.0		
	6100	KISV	3	S	1023.3	1027.5	4.2U	4.0			
	536	ONDR	47	GB	1031.8	1046.5U	43.0	124.0	27.0		
	430	KRAK	8	S	1033.3	1033.5	.3	100.0			
	430	KRAK	45	C	1057.0	1058.2	2.5	540.0	90.0		
	9100	GORK	20	GRF	1103.0	1105.7	57.0D	7.5			
	234	POTS	4	S/F	1231.0	1231.1	.5	275.0	40.0		
	810	KRAK	8	S	1251.1	1251.1	.2	34.0			
	15000	KISV	8	S	1255.3	1255.6	.4	9.0			
	2800	OTTA	4	S/F	1456.8	1457.1	10.0	36.0	6.4		
	930	BORD	46	C	1456.8	1457.3	2.2	20.0	3.0		
	2650	DWIN	4	S/F	1457.0U		1.0U	190.0	50.0		
	1470	POTS	4	S/F	1457.0	1457.4	2.5	27.0			
	3000	POTS	4	S/F	1457.0	1457.7	8.0	18.0			
	9500	POTS	4	S/F	1457.5		7.5				
	930	BORD	46	C	1618.8	1619.3	.8	12.0	2.0		
	2800	OTTA	1	S	1629.7	1630.2	1.5	2.0	1.0		
	2800	OTTA	20	GRF	1640.0	1720.0	80.0	3.2			
	930	BORD	46	C	1745.4	1745.5	.4	17.0	2.0		
	2800	OTTA	1	S	1915.0	1915.2	1.0	2.8	1.2		
	2800	OTTA	21	GRF	1940.0		70.0	2.4			
	9400	HUAN	1	S	1948.3	1949.4	3.8	9.8	6.6		0
	2800	OTTA	1	S	1948.5	1949.5	2.0	2.4	1.4		
	9400	TYKW	20	GRF	2110.0	2134.0	50.0	8.0	4.0		
	2800	OTTA	21	GRF	2120.0	2145.0	35.0	4.0	2.0		
	500	HIRA	46	C	2137.0	2137.6	1.4	50.0	14.0		WL
	3750	TYKW	5	S	2137.0	2137.8	2.0	8.0	3.0		
	1000	TYKW	5	S	2137.0	2137.9	1.5	8.0	3.0		
	2000	TYKW	5	S	2137.0	2138.1	3.0	14.0	4.0		
	2800	OTTA	3	S	2137.5	2138.0	2.0	14.8	5.0		
	9400	TYKW	45	C	2222.0	2226.1	20.0	12.0	2.5		
	3750	TYKW	45	C	2224.0	2226.1	15.0	8.0	2.0		
	2800	OTTA	22	GRF	2225.0	2226.0	11.0	5.0			
	9400	TYKW	20	GRF	2249.0	2251.0	30.0	5.0	2.0		
	1000	TYKW	5	S	2252.0	2254.6	4.0	6.0	2.5		
	2000	TYKW	5	S	2253.0	2254.7	5.0	8.0	3.0		
	1000	TYKW	30	PBI	2256.0		85.0	2.0	1.0		
	1000	TYKW	5	S	2301.0	2302.7U	4.0	4.0U	1.5U		INTERFERENCE
	9400	TYKW	21	GRF	2350.0	0002.0	70.0	3.0	1.5		
	3750	TYKW	21	GRF	2350.0	2357.0	70.0	3.0	1.5		
27	100	GORK	44	NS	0533.0E		327.0D		15.0		
	200	GORK	44	NS	0545.0E		315.0D		20.0		
	204	IZMI	43	NS	0600.0		360.0D	100.0			
	127	TORN	44	NS	0700.0E		480.0D		9.0		V1 DISTURBED
	260	ONDR	44	NS	0733.0E	1035.0U	454.0D	9.0U			
	536	ONDR	43	NS	1000.0	1029.5	60.0	10.0			
	410	SGMR	43	NS	1056.0	1339.5	706.0D	33.0			QL=6 ST=2 TYP=1
	245	SGMR	43	NS	1056.0	1734.1	706.0D	700.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2246.0	2331.0	685.0D	180.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.0D		11.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
27	1000	TYKW	45	C	0024.0	0025.4	3.0	1.5	.5		
	9395	PEKG	1	S	0030.0	0031.6	2.0	6.7	2.1		
	9400	TYKW	45	C	0030.5	0031.5	2.5	13.0	2.5		
	3750	TYKW	5	S	0030.5	0031.5	2.5	150.0	4.0		
	2840	PEKG	1	S	0030.6	0031.6	2.4	6.7	1.7		
	1000	TYKW	45	C	0030.7	0038.4	7.7U	14.0	2.0		
	2000	TYKW	5	S	0031.0	0031.5	2.5	5.5	2.0		
	2695	PENT	1	S	0031.0	0031.5	1.0	7.2	3.6		
	9400	TYKW	5	S	0039.0	0039.5	2.0	20.0	1.0		
	9400	TYKW	28	PRE	0114.0	0131.0	55.0	60.0	2.0		
	2000	TYKW	28	PRE	0114.0	0210.0	56.0	6.0	3.0		
	1000	TYKW	28	PRE	0125.0	0210.0	45.0	3.0	1.5		
	3750	TYKW	28	PRE	0200.0	0210.0	10.0	1.5	.7		
	9395	PEKG	46	C	0202.0	0213.8	23.00	125.00	25.7		
	9395	PEKG			0202.0	0214.4					
	9400	TYKW	45	C	0209.0	0213.7	22.0	1370.0	25.0		
	17000	NOBE	7	C	0209.1	0213.7	13.2	195.0			R
	35000	NAGO	45	C	0210.0	0212.0	6.0	73.0			
	1000	TYKW	45	C	0210.0	0212.4	15.0	75.0	19.0		
	35000	NAGO			0210.0	0213.0		80.0			
	500	HIRA	45	C	0210.0	0213.5	15.0	20.0	8.0		WL
	3750	TYKW	45	C	0210.0	0213.5	15.0	144.0	25.0		
	2000	TYKW	45	C	0210.0	0214.9	18.0	56.0	20.0		
	8800	MANI	4	S/F	0211.0	0215.3	7.5	135.6	45.2		
	4995	MANI	4	S/F	0211.5	0214.3	7.0	127.2	42.9		
	2695	MANI	4	S/F	0211.5	0214.3	7.5	81.8	27.3		
	1415	MANI	4	S/F	0212.0	0215.0	6.5	116.9	39.0		
	17000	NOBE	29	PBI	0222.3	0222.3	40.0	33.0			R
	1000	TYKW	30	PBI	0225.0		255.0	7.0	4.0		
	3750	TYKW	30	PBI	0225.0		290.0	19.0	10.0		
	2000	TYKW	30	PBI	0228.0		300.0	17.0	9.0		
	9400	TYKW	30	PBI	0231.0		240.0	260.0	13.0		
	2000	TYKW	5	S	0239.0	0241.0	7.0	3.0	1.0		
	9400	TYKW	5	S	0302.0	0302.7	2.00	80.0	4.00		
	2000	TYKW	5	S	0302.0	0302.7	2.0	6.0	1.5		
	4995	LEAR	8	S	0302.1	0302.3	2.0	8.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0302.1	0302.3	1.0	10.0			QL=6 ST=2 TYP=3
	2695	LEAR	8	S	0302.1	0302.6	1.0	6.0			QL=6 ST=2 TYP=3
	1415	LEAR	8	S	0302.1	0302.8	2.0	8.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0303.0E	0303.0U	1.00	2.00	1.00		
	3750	TYKW	21	GRF	0400.0	0411.5	85.0	7.0	2.5		
	15400	PALE	8	S	0404.6	0405.3	1.0	37.0			QL=5 ST=2 TYP=3
	1000	TYKW	45	C	0408.0	0409.3	8.0	3.0	.7		
	2000	TYKW	45	C	0408.5	0411.5	5.5	8.0	3.0		
	410	LEAR	8	S	0408.6	0410.0	2.0	50.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0409.0	0414.0	20.0	40.0	2.0		
	245	LEAR	49	GB	0409.3	0409.6	2.0	570.0			QL=6 ST=2 TYP=6
	2000	TYKW	29	PBI	0414.0		6.0	2.0	1.0		
	9400	TYKW	20	GRF	0430.0	0455.0	65.0	70.0	4.0		
	3750	TYKW	20	GRF	0449.0	0455.0	30.0	3.0	1.5		
	2000	TYKW	20	GRF	0450.0	0455.0	35.0	2.0	1.0		
	1000	TYKW	45	C	0450.9	0451.0	8.0	19.0	1.0		
	17000	NOBE	20	GRF	0451.6	0454.4	15.0	17.0			0
	650	GORK	23	GRF	0516.0U	1041.7	344.00	14.0			
	950	GORK	21	GRF	0546.0	0809.0	254.0U	12.0			
	9100	GORK	20	GRF	0556.2	0557.1	19.0	8.0			
	9400	TYKW	5	S	0556.5	0556.9	5.0	60.0	2.0		
	2950	GORK	21	GRF	0559.0	0700.0	300.00	18.7			
	15000	KISV	45	C	0602.2	0603.0	1.5	14.0			
	9400	TYKW	20	GRF	0640.0	0655.0	35.0	40.0	2.0		
	9100	GORK	20	GRF	0646.7	0653.5	15.6	6.6			
	113	POTS	4	S/F	0649.0	0649.2	.3	385.0	75.0		
	410	LEAR	4	S/F	0653.5	0653.6	20.0	25.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0748.0	0748.1	200.0	25.0			QL=6 ST=3 TYP=3
	15400	LEAR	8	S	0754.6	0755.3	2.0	23.0			QL=6 ST=2 TYP=3
	15000	KISV	4	S/F	0754.7	0755.4	2.0	30.0			
	113	POTS	4	S/F	0755.0	0755.1	.4	560.0	100.0		
	17000	NOBE	1	S	0755.2	0755.4	2.0	32.0			0
	9100	GORK	20	GRF	0755.2	0806.9	29.8	7.9			
	15000	KISV	45	C	0805.7	0806.0	3.0	11.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
27	15000	KISV			0805.7	0807.0		11.0			
	2650	DWIN	1	S	0900.0U		5.0U	20.0	10.0		
	6100	KISV	4	S/F	0908.0	0914.5	15.0	28.0			
	4995	LEAR	4	S/F	0912.3	0914.3	6.0	45.0			QL=6 ST=2 TYP=3
	9100	GORK	20	GRF	0912.4	0914.5	8.4	26.0			
	8800	ATHN	4	S/F	0912.5	0914.6	6.0	25.0			QL=6 ST=2 TYP=3
	2695	ATHN	4	S/F	0912.6	0914.6	6.0	27.0			QL=6 ST=2 TYP=3
	4995	ATHN	4	S/F	0912.6	0914.6	6.0	45.0			QL=6 ST=2 TYP=3
	1415	ATHN	4	S/F	0912.6	0915.3	5.0	13.0			QL=6 ST=2 TYP=3
	8400	BERN	3	S	0912.7	0914.2	7.0	32.0			
	2950	GORK	3	S	0913.0	0914.4	4.0	20.0	10.0		
	3000	POTS	3	S	0913.0	0914.5	12.0	26.0			
	9500	POTS	3	S	0913.0	0914.5					
	1470	POTS	3	S	0913.0	0915.0	8.0	7.0			
	2695	LEAR	4	S/F	0913.1	0914.3	3.0	22.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0913.3	0914.5	3.0	31.0			QL=6 ST=2 TYP=3
	650	GORK	4	S/F	0954.0	0954.3	.7	17.0			
	430	KRAK	8	S	0958.9	0959.0	.3	44.0			
	2650	DWIN	2	S/F	1000.0U		2.0U	30.0	10.0		
	430	KRAK	45	C	1008.4	1009.4	2.6	220.0	20.0		
	1470	POTS	4	S/F	1008.5	1010.3	13.0	30.0			
	9500	POTS	20	GRF	1008.5	1014.0	17.0				
	810	KRAK	2	S/F	1008.6	1009.4	2.0	15.0	7.0		
	650	GORK	4	S/F	1008.6	1009.8	2.2	20.0			
	950	GORK	4	S/F	1008.7	1009.8	2.8	16.0			
	6100	KISV	27	RF	1008.7	1009.9	19.0	8.0			
	930	BORD	46	C	1008.8	1008.9	3.6	26.0	4.0		
	410	LEAR	47	GB	1008.8	1009.8	2.0	95.0			QL=6 ST=2 TYP=5
	610	LEAR	47	GB	1008.8	1009.8	2.0	57.0			QL=6 ST=2 TYP=5
	2950	GORK	45	C	1008.8	1010.2	3.2	18.8			
	2950	GORK			1008.8	1011.1		23.5			
	808	ONDR	2	S/F	1008.9	1009.8	10.0	15.0	5.0		
	204	IZMI	46	C	1009.0	1010.0	2.0	618.0	400.0		
	3000	POTS	4	S/F	1009.0	1011.0	11.0	28.0			
	9100	GORK	20	GRF	1009.0	1014.0	15.4	11.0			
	234	POTS	4	S/F	1009.1	1009.8	1.6	700.0	30.0		III/V
	245	LEAR	47	GB	1009.1	1010.0	2.0	139.0			QL=6 ST=2 TYP=5
	3000	IZMI	7	C	1009.2	1010.8	2.5	24.0	14.0		
	4995	ATHN	4	S/F	1009.3	1009.8	9.0	27.0			QL=6 ST=2 TYP=3
	1415	ATHN	4	S/F	1009.3	1010.1	18.0	31.0			QL=6 ST=2 TYP=3
	2695	ATHN	47	GB	1009.3	1011.0	9.0	56.0			QL=6 ST=2 TYP=5
	8800	ATHN	4	S/F	1009.3	1011.5	17.0	13.0			QL=6 ST=2 TYP=3
	200	GORK	4	S/F	1009.7E	1010.2	1.8D	470.0			
	33	UPIC	42	SER	1010.1	1411.5	243.3				
	100	GORK	46	C	1010.4E	1010.6U	.8D	80.0D			
	100	GORK			1010.4E	1011.1		80.0D			
	29	UPIC	42	SER	1010.6	1412.0	241.8				
	430	KRAK	42	SER	1012.7	1028.9	133.0	240.0			
	430	KRAK			1012.7	1122.9		72.0			
	430	KRAK			1012.7	1201.6		56.0			
	2950	GORK	1	S	1018.4	1019.2	1.9	2.3			
	2950	GORK	1	S	1028.1	1029.5	2.9	8.2	4.0		
	234	POTS	4	S/F	1029.0	1029.2	.8	100.0	20.0		
	15000	KISV	2	S/F	1113.3	1113.8	3.0	16.0			
	15000	KISV	27	RF	1123.5	1129.0	10.0	12.0			
	15000	KISV	27	RF	1147.0	1151.3	8.0	11.0			
	15000	KISV	1	S	1204.5	1205.2	4.0	20.0			
	810	KRAK	8	S	1206.6	1206.6	.2	15.0			
	2800	OTTA	20	GRF	1225.0	1250.0	80.0	4.0	2.0		
	810	KRAK	8	S	1226.3	1226.3	.2	16.0			
	430	KRAK	8	S	1243.7	1243.7	.2	100.0			
	536	ONDR	8	S	1243.7	1243.7	.1	27.0			
	430	KRAK	42	SER	1311.7	1322.2	36.0	120.0			
	9400	HUAN	28	PRE	1356.0	1408.8	12.8	8.8	3.2		R
	2650	DWIN	45	C	1400.0U		15.0U	250.0	100.0		
	2800	OTTA			1402.0	1417.7	15.7D	112.0			
	8400	BERN	45	C	1406.8	1415.8	120.0D	483.0			
	19600	BERN	45	C	1406.8	1415.8	120.0D	132.0			
	11800	BERN	45	C	1406.8	1415.8	120.0D	403.0			
	536	ONDR	40	F	1408.0	1411.8	10.5	6.0	4.0		

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27	3000	POTS	45	C	1408.0	1416.0	42.00	365.0			
	610	SGMR	4	S/F	1408.1	1412.3	5.0	20.0			QL=6 ST=2 TYP=3
	9500	POTS	45	C	1408.5		42.00				
	1470	POTS	45	C	1408.5	1416.4	42.00	56.0			
	4995	SGMR	47	GB	1408.6	1411.6	55.0	380.0			QL=6 ST=2 TYP=5
	2695	SGMR	47	GB	1408.6	1411.6	34.0	200.0			QL=6 ST=2 TYP=5
	9400	HUAN	45	C	1408.8	1416.2U	11.8	168.9	90.5		R
	113	POTS	4	S/F	1409.3	1411.2	3.0	600.0	25.0		III
	8800	SGMR	47	GB	1409.5	1411.6	44.0	280.0			QL=6 ST=2 TYP=5
	15400	SGMR	47	GB	1410.0	1411.6	55.0	169.0			QL=6 ST=2 TYP=5
	1415	SGMR	47	GB	1410.1	1411.3	15.0	44.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	1410.6	1410.8	3.0	90.0			QL=6 ST=2 TYP=5
	410	SGMR	8	S	1411.1	1411.3	1.0	18.0			QL=6 ST=2 TYP=3
	9400	HUAN	30	PBI	1420.6	1420.6	72.7	52.8	16.3		0
	2800	OTTA	29	PBI	1430.0	1430.0	180.0	15.4	5.2		
	113	POTS	42	SER	1433.2	1456.3	25.0	300.0	1.0		
	9400	HUAN	1	S	1517.6	1518.3	2.7	5.3	3.2		0
	15400	SGMR	8	S	1518.1	1518.3	1.0	40.0			QL=6 ST=2 TYP=3
	4995	SGMR	4	S/F	1518.3	1518.6	550.0	17.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	2020.5	2023.0	4.5	3.0	1.5		
	9400	TYKW	45	C	2153.0	2211.7	30.0	100.0	3.0		
	15400	PALE	47	GB	2211.6	2211.6	10.0	100.0			QL=6 ST=2 TYP=5
	15400	SGMR	47	GB	2211.6	2211.6	10.0	100.0			QL=4 ST=2 TYP=5
	17000	NOBE	3	S	2211.6	2211.7	1.4	149.0			L
	17000	NOBE	29	PBI	2213.0	2213.0	17.0	17.0			0
	3750	TYKW	21	GRF	2240.0	0030.0	240.0	4.0	2.0		
	3750	TYKW	5	S	2302.0	2304.5	15.0	3.0	1.0		
	9400	TYKW	5	S	2303.8	2304.1	.8	40.0	1.5		
	9400	TYKW	5	S	2309.0	2309.4	2.0	80.0	2.0		
	2000	TYKW	20	GRF	2350.0	0235.0	80.0	2.0	1.0		
	410	LEAR	8	S	2354.8	2355.0	1.0	22.0			QL=6 ST=2 TYP=3
28	100	GORK	44	NS	0403.0E		237.00		5.0		
	200	GORK	44	NS	0404.0E		417.00		5.0		
	33	UPIC	43	NS	0616.8	1005.1D	540.4				
	29	UPIC	43	NS	0617.3	1005.5D	540.2				
	410	LEAR	43	NS	0651.3	0903.6	200.00	53.0			QL=6 ST=2 TYP=1
	127	TORN	44	NS	0700.0E	0946.8	480.00	380.0			V1
	260	ONDR	44	NS	0846.0E		386.00				
	245	SGMR	43	NS	1054.0	1713.6	709.00	500.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1717.0	0353.0	658.00	87.0			QL=6 ST=2 TYP=1
	410	LEAR	43	NS	2247.0	0224.8	683.00	33.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2247.0	0434.3	683.00	100.0			QL=6 ST=2 TYP=1
	208	VORO	44	NS	2300.0E		240.00		1.0		
	17000	NOBE	1	S	0010.4	0010.5	.5	17.0			0
	9400	TYKW	5	S	0010.4	0010.5	2.5	9.0	2.0		
	9400	TYKW	5	S	0022.5	0022.7	1.0	5.0	1.5		
	9400	TYKW	28	PRE	0113.0	0120.0	35.0	5.0	3.0		
	3750	TYKW	28	PRE	0113.0	0135.0	35.0	6.0	4.0		
	2000	TYKW	5	S	0120.0	0122.0	10.0	2.0	1.0		
	17000	NOBE	7	C	0133.2		24.0				
	17000	NOBE			0133.2	0134.0		8.0			0
	17000	NOBE			0133.2	0142.9		10.0			0
	17000	NOBE			0133.2	0151.0		41.0			L
	410	LEAR	47	GB	0139.6	0139.8	1.0	57.0			QL=6 ST=2 TYP=5
	9400	TYKW	45	C	0142.0	0142.6	2.0	10.0	2.5		
	8800	LEAR	8	S	0142.1	0142.6	2.0	10.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0142.3	0142.8	2.0	15.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	0147.5	0148.5	4.5	19.0	5.0		
	2000	TYKW	45	C	0147.5	0148.8	25.0	29.0	3.0		
	1415	LEAR	4	S/F	0147.8	0148.8	4.0	19.0			QL=6 ST=2 TYP=3
	1415	MANI	3	S	0148.0	0150.3	3.8	61.7	20.6		
	8800	LEAR	47	GB	0148.0	0150.8	8.0	100.0			QL=6 ST=2 TYP=5
	2840	PEKG			0148.0	0150.8		48.4			
	3750	TYKW	45	C	0148.0	0151.0	25.0	67.0	12.0		
	9400	TYKW	45	C	0148.0	0151.0	23.0	95.0	14.0		
	2695	LEAR	4	S/F	0148.1	0150.6	5.0	40.0			QL=6 ST=2 TYP=3
	4995	LEAR	47	GB	0148.1	0150.8	8.0	84.0			QL=6 ST=2 TYP=5
	2695	MANI	3	S	0150.0	0151.0	3.0	71.1	23.7		
	9395	PEKG	45	C	0150.0	0151.4	5.0	71.3	59.7		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
28	2695	PALE	8	S	0150.1	0150.6	1.0	39.0			QL=6 ST=2 TYP=3
	4995	PALE	47	GB	0150.1	0150.8	2.0	79.0			QL=6 ST=2 TYP=5
	8800	PALE	47	GB	0150.1	0150.8	2.0	96.0			QL=6 ST=2 TYP=5
	15400	LEAR	47	GB	0150.1	0151.0	6.0	57.0			QL=6 ST=2 TYP=5
	4995	MANI	3	S	0150.2	0151.4	3.8	110.8	36.9		
	15400	PALE	8	S	0150.3	0150.8	1.0	47.0			QL=6 ST=2 TYP=3
	8800	MANI	3	S	0150.3	0151.4	3.3	83.5	27.8		
	2840	PEKG	45	C	0207.5	0207.5	25.0	11.4	4.2		
	9395	PEKG			0207.5	0306.8					
	9400	TYKW	29	PBI	0211.0		20.0	4.0	2.0		
	3750	TYKW	30	PBI	0213.0		20.0	3.0	1.5		
	3750	TYKW	5	S	0215.0	0217.0	5.0	2.0	1.0		
	1000	TYKW	45	C	0303.0	0306.6U	10.0	14.0D	2.0D		
	2000	TYKW	5	S	0304.0	0305.0U	1.0D	2.0D	1.0D		
	2840	PEKG	45	C	0304.0	0306.8	5.0	54.9	4.3		
	3750	TYKW	5	S	0304.0	0307.0U	4.0	9.0D	3.0D		
	245	LEAR	47	GB	0304.1	0304.3	2.0	130.0			QL=6 ST=2 TYP=5
	1415	MANI	40	F	0304.8	0306.8	4.7	39.9	13.3		
	500	HIRA	45	C	0305.0	0306.5	3.0	30.0	6.0		SR
	2695	LEAR	8	S	0305.3	0306.3	2.0	34.0			QL=6 ST=2 TYP=3
	1415	LEAR	4	S/F	0305.8	0306.3	3.0	20.0			QL=6 ST=2 TYP=3
	410	LEAR	47	GB	0305.8	0306.6	3.0	60.0			QL=6 ST=2 TYP=5
	4995	LEAR	47	GB	0305.8	0306.6	2.0	54.0			QL=6 ST=2 TYP=5
	610	LEAR	4	S/F	0305.8	0306.6	3.0	17.0			QL=6 ST=2 TYP=3
	2695	MANI	3	S	0306.0	0306.7	1.4	44.9	15.0		
	15400	LEAR	8	S	0306.1	0306.6	2.0	16.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0306.1	0306.6	2.0	40.0			QL=6 ST=2 TYP=3
	606	MANI	3	S	0306.2	0306.5	.9	20.2	6.7		
	4995	PALE	4	S/F	0306.3	0306.5	20.0	42.0			QL=6 ST=2 TYP=3
	1415	PALE	4	S/F	0306.3	0306.6	100.0	22.0			QL=6 ST=2 TYP=3
	2695	PALE	4	S/F	0306.3	0306.6	10.0	32.0			QL=6 ST=2 TYP=3
	8800	MANI	3	S	0306.3	0306.7	1.0	48.2	16.1		
	4995	MANI	3	S	0306.3	0306.7	1.2	68.4	22.8		
	17000	NOBE	7	C	0306.3	0309.2	5.0	21.0			0
	9400	TYKW	5	S	0307.0E	0307.0U	1.0D	12.0D	8.0D		
	3750	TYKW	29	PBI	0308.0		15.0	2.0	1.0		
	2000	TYKW	29	PBI	0308.0E		20.0D	1.0D	.5D		
	9400	TYKW	29	PBI	0308.0		12.0	6.0	3.0		
	8800	LEAR	8	S	0309.1	0309.1	1.0	34.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0309.1	0309.1	1.0	24.0			QL=6 ST=2 TYP=3
	3750	TYKW	28	PRE	0348.0	0353.3	44.0	9.0	2.0		
	2840	PEKG	1	S	0351.0	0353.0	6.0	7.8	1.7		
	2000	TYKW	5	S	0352.0	0353.5	5.0	6.0	2.5		
	15400	LEAR	8	S	0358.3	0358.6	2.0	33.0			QL=6 ST=2 TYP=3
	17000	NOBE	1	S	0358.5	0358.7	1.0	83.0			0
	15400	PALE	8	S	0400.5	0401.1	1.0	41.0			QL=6 ST=2 TYP=3
	9400	TYKW	45	C	0413.5	0433.8	20.3U	187.0	34.0		
	2000	TYKW	28	PRE	0415.0	0420.0	16.0	1.5	1.0		
	950	GORK	21	GRF	0426.2	0736.0	274.0D	14.0			
	2840	PEKG			0430.0	0433.9		54.7	6.9		
	2840	PEKG			0430.0	0437.8		18.6			
	2840	PEKG	45	C	0430.0	0440.4	20.0	42.0			
	1000	TYKW	45	C	0431.0	0432.9	15.0	70.0	7.0		
	2000	TYKW	45	C	0431.0	0433.7	17.0	30.0	8.0		
	1415	LEAR	4	S/F	0431.1	0433.6	14.0	26.0			QL=6 ST=2 TYP=3
	950	GORK	4	S/F	0431.3	0432.7	3.2	47.0			
	1415	MANI	4	S/F	0431.6	0433.1	4.6	18.2	6.1		
	8800	LEAR	47	GB	0431.8	0433.8	17.0	219.0			QL=6 ST=3 TYP=5
	100	GORK	46	C	0431.9	0432.7	3.1	70.0D			
	100	GORK			0431.9	0433.4		70.0D			
	606	MANI	4	S/F	0432.0	0433.6	3.0	43.7	14.6		
	9395	PEKG			0432.0	0433.9		162.7	16.6		
	3750	TYKW	45	C	0432.0	0433.9	18.0	81.0	20.0		
	8800	MANI	3	S	0432.0	0434.1	4.0	171.6	57.2		
	9395	PEKG			0432.0	0437.8		63.6			
	9395	PEKG	45	C	0432.0	0440.2	18.0	63.0			
	610	LEAR	4	S/F	0432.1	0433.5	3.0	26.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0432.1	0433.6	15.0	48.0			QL=6 ST=2 TYP=3
	4995	LEAR	47	GB	0432.1	0433.8	15.0	130.0			QL=6 ST=3 TYP=5
	2695	MANI	3	S	0432.2	0433.9	3.8	32.9	11.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
28	500	HIRA	45	C	0432.3	0433.3	4.0	30.0	9.0		SR
	4995	MANI	3	S	0432.7	0434.0	3.3	111.9	37.3		
	9100	GORK	21	GRF	0433.0E		24.0D	30.0			
	245	LEAR	8	S	0433.0	0434.1	2.0	41.0			QL=6 ST=2 TYP=3
	200	GORK	41	F	0433.0	0434.3	4.0	110.0			
	200	GORK			0433.0	0436.6		40.0			
	410	LEAR	8	S	0433.1	0433.8	2.0	45.0			QL=6 ST=2 TYP=3
	15400	LEAR	47	GB	0433.1	0433.8	14.0	119.0			QL=6 ST=3 TYP=5
	9100	GORK	4	S/F	0433.2	0433.7	2.9	170.0			
	17000	NOBE	7	C	0433.3	0433.9	13.0	84.0			L
	35000	NAGO	5	S	0434.0	0434.0	2.0	270.0			
	2950	GORK	21	GRF	0435.0	0442.7	13.3D	21.0			
	2695	ATHN	4	S/F	0437.0E	0437.6	5.0D	8.0			QL=2 ST=2 TYP=3
	9100	GORK	45	C	0437.1	0437.6	4.5	47.0			
	4995	ATHN	4	S/F	0437.1E	0437.8	5.0D	33.0			QL=2 ST=2 TYP=3
	950	GORK	4	S/F	0437.1	0438.2	4.1	8.0			
	9100	GORK			0437.1	0440.2		30.0			
	2950	GORK	1	S	0437.2	0437.5	1.0	6.9			
	8800	ATHN	47	GB	0437.3E	0437.8	5.0D	100.0			QL=2 ST=2 TYP=5
	2950	GORK	4	S/F	0439.4	0440.1	2.5	16.0			
	2000	TYKW	29	PBI	0448.0		60.0	3.0	1.5		
	9400	TYKW	29	PBI	0449.0		10.0	4.0	2.0		
	3750	TYKW	29	PBI	0450.0		65.0	3.0	1.5		
	610	LEAR	4	S/F	0457.1	0457.3	30.0	16.0			QL=6 ST=2 TYP=3
	9100	GORK	21	GRF	0512.0	0546.7	52.5	9.0			
	100	GORK	8	S	0537.0	0537.4	.9	65.0D			
	9400	TYKW	45	C	0545.5	0554.6	24.0	15.0	3.0		
	15000	KISV	4	S/F	0553.0	0554.6	3.0	48.0			
	17000	NOBE	1	S	0554.2	0554.6	.8	42.0			0
	9100	GORK	1	S	0554.3	0554.5	.5	14.0	7.0		
	15400	LEAR	8	S	0554.3	0554.5	1.0	39.0			QL=6 ST=2 TYP=3
	100	GORK	41	F	0613.3	0615.6	5.4	110.0D			
	100	GORK			0613.3	0617.0		110.0D			
	100	GORK			0613.3	0617.7		110.0D			
	113	POTS	41	F	0615.5	0618.0	3.1	200.0	5.0		III
	200	GORK	4	S/F	0616.6	0617.0	1.7	260.0D			
	245	LEAR	47	GB	0616.8	0617.1	3.0	110.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	0617.0	0617.1	20.0	40.0			QL=6 ST=2 TYP=3
	610	LEAR	47	GB	0617.0	0617.6	300.0	52.0			QL=6 ST=2 TYP=5
	2950	GORK	23	GRF	0621.0	0703.0	339.0D	19.7			
	9400	TYKW	45	C	0624.0	0700.3	52.0	40.0	23.0		
	3750	TYKW	45	C	0624.0	0700.4	51.0	23.0	11.0		
	2000	TYKW	45	C	0624.0	0706.9	46.0	33.0	8.0		
	17000	NOBE	20	GRF	0626.7	0650.4	100.0D	25.0			R
	410	LEAR	8	S	0627.0	0628.3	2.0	25.0			QL=6 ST=2 TYP=3
	9100	GORK	21	GRF	0627.0	0706.9	273.0D	28.0			
	15400	LEAR	20	GRF	0627.5	0629.6	9.0	24.0			QL=6 ST=2 TYP=2
	8800	LEAR	20	GRF	0627.6	0631.6	11.0	24.0			QL=6 ST=2 TYP=2
	2840	PEKG	45	C	0628.0	0630.4	8.0	4.5	1.6		
	9395	PEKG	3	S	0628.0	0630.8	10.0	33.9	9.5		
	4995	LEAR	20	GRF	0628.0	0633.1	9.0	11.0			QL=6 ST=2 TYP=2
	2695	LEAR	20	GRF	0628.0	0634.1	9.0	13.0			QL=6 ST=2 TYP=2
	6100	KISV	27	RF	0628.0	0700.4	90.0	210.0			
	2840	PEKG	21	GRF	0628.0	0707.0	106.0D	18.6	9.1		
	9395	PEKG	21	GRF	0628.0	0711.0	99.0	71.4	24.8		
	1415	LEAR	4	S/F	0628.3	0629.6	4.0	24.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	0629.0	0705.1	64.0	94.0	8.0		
	1415	ATHN	8	S	0629.5	0629.8	2.0	24.0			QL=6 ST=2 TYP=3
	2695	ATHN	8	S	0630.0	0630.3	1.0	11.0			QL=6 ST=2 TYP=3
	15000	KISV	27	RF	0630.0U	0707.0	90.0U	52.0U			
	100	GORK	8	S	0633.3	0634.0	.7	110.0D			
	3000	POTS	23	GRF	0645.0E	0700.5	100.0D	19.0			
	650	GORK	23	GRF	0645.0	0745.0	255.0D	7.0			
	15000	KISV	2	S/F	0645.7	0646.2	1.0	12.0			
	100	GORK	46	C	0651.8	0652.2	.7	110.0D			
	113	POTS	42	SER	0651.8	0656.5	5.3	600.0	4.0		III
	2840	PEKG	45	C	0656.0	0700.4	16.0	10.0	4.7		
	950	GORK	40	F	0656.4	0705.1	35.4	48.0			
	9395	PEKG	45	C	0659.0	0700.5	11.0	10.7	1.4		
	1470	POTS	45	C	0659.0	0705.5	36.0	205.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
28	15400	LEAR	8	S	0659.8	0700.5	1.0	23.0			QL=6 ST=2 TYP=3
	1415	LEAR	47	GB	0659.8	0702.3	11.0	29.0			QL=6 ST=2 TYP=5
	9100	GORK	1	S	0659.9	0700.2	1.0	13.0	6.0		
	15000	KISV	2	S/F	0700.0	0700.4	1.0	16.0			
	2950	GORK	1	S	0700.0	0700.4	1.5	7.0			
	9500	POTS	20	GRF	0700.0E	0707.0	80.0D				
	430	KRAK	42	SER	0700.0E	0712.6	33.0D	140.0			
	430	KRAK			0700.0E	0720.2		62.0			
	8800	LEAR	4	S/F	0700.1	0700.3	110.0	22.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0700.1	0700.3	90.0	16.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0700.1	0700.5	90.0	16.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0703.6	0704.1	2000.0	29.0			QL=6 ST=2 TYP=3
	2950	GORK	8	S	0707.3	0707.4	.2	16.2			
	2000	TYKW	30	PBI	0710.0		70.0D	12.0	9.0D		
	650	GORK	46	C	0711.0	0714.7	15.6	13.0			
	650	GORK			0711.0	0718.6		13.0			
	650	GORK			0711.0	0721.6		9.0			
	650	GORK			0711.0	0726.1		24.0			
	610	LEAR	8	S	0714.1	0714.6	1.0	20.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0714.5	0714.6	339.2	36.0			QL=6 ST=2 TYP=3
	3750	TYKW	29	PBI	0715.0		75.0U	16.0	8.0		
	9400	TYKW	29	PBI	0716.0		75.0D	30.0	22.0D		
	113	POTS	4	S/F	0719.6	0719.9	1.7	800.0	40.0		III
	100	GORK	41	F	0719.7	0719.9	2.2	110.0D			
	100	GORK			0719.7	0720.8		110.0D			
	810	KRAK	40	F	0720.0	0721.0	2.1	150.0			
	245	LEAR	47	GB	0720.5	0720.6	30.0	180.0			QL=6 ST=2 TYP=5
	410	LEAR	47	GB	0720.5	0720.6	115.2	64.0			QL=6 ST=2 TYP=5
	15000	KISV	8	S	0724.0	0724.2	.5	10.0			
	2000	TYKW	5	S	0729.0	0729.3	2.0	5.0	1.0		
	1000	TYKW	30	PBI	0733.0		17.0D	8.0	8.0D		
	430	KRAK	27	RF	0734.3	0753.0	43.0	41.0	15.0		
	650	GORK	4	S/F	0746.5	0747.1	5.7	5.0			
	15000	KISV	8	S	0750.8	0751.0	.5	10.0			
	100	GORK	8	S	0813.0	0813.4	1.1	110.0D			
	113	POTS	42	SER	0813.2	0824.6	12.0	175.0	2.0		III
	430	KRAK	42	SER	0838.8	0903.5	30.0	430.0			
	650	GORK	4	S/F	0840.1	0840.4	.5	7.6	3.8		
	810	KRAK	8	S	0840.3	0840.4	.3	100.0			
	536	ONDR	8	S	0846.9	0847.1	.3	27.0			
	536	ONDR	8	S	0849.9	0850.0	.2	21.0			
	810	KRAK	8	S	0856.5	0856.5	.3	240.0			
	610	LEAR	47	GB	0856.6	0856.8	1.0	189.0			QL=6 ST=2 TYP=5
	950	GORK	41	F	0856.6	0856.9	3.6	72.0			
	950	GORK			0856.6	0900.1		68.0			
	650	GORK	41	F	0856.8	0857.0U	3.4	20.0D			
	650	GORK			0856.8	0900.1U		20.0D			
	808	ONDR	8	S	0857.0	0857.2	.3	91.0			
	810	KRAK	8	S	0859.5	0859.8	.6	170.0			
	100	GORK	41	F	0859.7	0910.0	11.0	120.0			
	100	GORK			0859.7	0910.5		120.0D			
	610	LEAR	47	GB	0859.8	0900.1	1.0	84.0			QL=6 ST=2 TYP=5
	808	ONDR	8	S	0859.8	0900.1	.4	71.0			
	1415	LEAR	8	S	0859.8	0900.1	1.0	11.0			QL=6 ST=2 TYP=3
	204	IZMI	8	S	0907.4	0907.4	.2	265.0	125.0		
	200	GORK	8	S	0907.6	0907.6	.2	230.0			
	6100	KISV	4	S/F	0915.8	0916.5	4.0	11.0			
	950	GORK	4	S/F	0915.9	0916.1	3.2	15.0			
	9100	GORK	1	S	0915.9	0916.4	.9	16.0	8.0		
	1470	POTS	4	S/F	0916.0	0916.1	1.0	10.0			
	1415	LEAR	4	S/F	0916.0	0916.1	10.0	21.0			QL=6 ST=2 TYP=3
	808	ONDR	40	F	0916.0	0916.3	3.0	10.0	7.0		
	15000	KISV	3	S	0926.0	0926.6	4.0	14.0			
	430	KRAK	8	S	0934.8	0934.8	.2	76.0			
	950	GORK	41	F	0940.0	0940.4	1.6	55.0			
	950	GORK			0940.0	0941.5		10.0			
	810	KRAK	8	S	0947.4	0947.9	.8	120.0			
	650	GORK	4	S/F	0947.4	0948.3	.9	11.0	3.0		
	204	IZMI	8	S	0947.5	0947.5	.2	225.0	100.0		
	200	GORK	41	F	0947.5	0947.7	3.0	230.0D			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
28	950	GORK	4	S/F	0947.5	0948.1	.9	43.0			
	200	GORK			0947.5	0949.4		90.0			
	950	GORK	4	S/F	0947.5	1003.6U	56.0	74.0			
	930	BORD	46	C	0947.6	0948.0	1.0	134.0	7.0		
	100	GORK	41	F	0947.6	0948.4	1.8	110.0D			
	100	GORK			0947.6	0949.2		110.0			
	808	ONDR	2	S/F	0948.0	0948.6	1.2	39.0			
	113	POTS	4	S/F	0948.7	0948.7	.8	300.0	20.0	III	
	430	KRAK	8	S	0953.7	0953.7	.3	67.0			
	33	UPIC	48	C	1000.3	1005.1	7.1				
	808	ONDR	45	C	1000.9	1003.8	15.0	86.0	17.0		
	930	BORD	46	C	1002.0	1003.6	7.0	82.0	10.0		
	1470	POTS	4	S/F	1002.0	1004.4	9.0	92.0			
	650	GORK	46	C	1002.4	1003.5U	7.1	25.0D			
	650	GORK			1002.4	1006.2		56.0			
	113	POTS	4	S/F	1002.5	1005.1	4.8	1500.0	50.0	III	
	29	UPIC	48	C	1002.5	1005.5	5.2				
	536	ONDR	45	C	1002.5	1007.5U	10.3	244.0	66.0		
	6100	KISV	28	PRE	1003.0	1004.2	1.5	6.0			
	3000	POTS	4	S/F	1003.0	1005.5	85.0	145.0			
	204	IZMI	41	F	1003.0	1006.0	3.5	600.0			
	610	LEAR	47	GB	1003.1	1003.5	5.0	219.0			QL=5 ST=3 TYP=5
	127	TORN	4	S/F	1003.1	1005.4	3.0	2000.0	350.0		
	1415	ATHN	47	GB	1003.5	1005.3	12.0	150.0			QL=6 ST=2 TYP=5
	1415	LEAR	47	GB	1003.6	1004.8	2.0	160.0			QL=5 ST=3 TYP=5
	9500	POTS	45	C	1004.0		11.0				
	8400	BERN	47	GB	1004.0	1004.9	9.5	770.0			
	11800	BERN	47	GB	1004.0	1004.9	9.5	1122.0			
	35000	BERN	47	GB	1004.0	1004.9	9.5	761.0			
	19600	BERN	47	GB	1004.0	1004.9	9.5	1133.0			
	410	LEAR	47	GB	1004.1	1004.8	4.0	210.0			QL=5 ST=3 TYP=5
	2950	GORK	46	C	1004.2	1004.9	3.2	102.0			
	3000	IZMI	4	S/F	1004.2	1005.0	5.5	117.0	60.0		
	2950	GORK			1004.2	1005.4		125.0			
	4995	LEAR	47	GB	1004.3	1004.8	3.0	210.0			QL=5 ST=3 TYP=5
	9100	GORK	46	C	1004.3	1005.6	5.9	433.0			
	9100	GORK			1004.3	1006.0		530.0			
	6100	KISV	47	GB	1004.4	1005.1	3.5	243.0			
	6100	KISV			1004.4	1005.7		126.0			
	6100	KISV			1004.4	1006.1		131.0			
	200	GORK	4	S/F	1004.4	1006.3	2.4	730.0D			
	8800	LEAR	49	GB	1004.5	1004.8	4.0	710.0			QL=5 ST=3 TYP=6
	15000	KISV	47	GB	1004.5	1005.0	3.5	132.2			
	2695	LEAR	47	GB	1004.5	1005.3	1.0	160.0			QL=5 ST=3 TYP=5
	15000	KISV			1004.5	1005.7		636.0			
	15000	KISV			1004.5	1006.1		786.0			
	15400	LEAR	49	GB	1004.6	1004.8	3.0	610.0			QL=5 ST=3 TYP=6
	245	LEAR	49	GB	1004.6	1005.0	2.0	219.0			QL=5 ST=3 TYP=6
	4995	ATHN	47	GB	1004.6	1005.3	11.0	280.0			QL=6 ST=2 TYP=5
	8800	ATHN	49	GB	1004.6	1005.3	11.0	1000.0			QL=6 ST=2 TYP=6
	2695	ATHN	47	GB	1004.6	1005.3	11.0	139.0			QL=6 ST=2 TYP=5
	100	GORK	46	C	1004.7	1005.4	2.0	11700.0			
	234	POTS	41	F	1004.7	1006.1	1.6	625.0	20.0	III	
	100	GORK			1004.7	1006.2		540.0			
	430	KRAK	46	C	1005.0E	1005.0U	5.5D	570.0U	100.0U		
	810	KRAK	45	C	1005.0E	1005.0U	4.5D	28.0U			
	6100	KISV	29	PBI	1007.9	1008.0	5.0	26.0			
	15000	KISV	29	PBI	1008.0	1008.0	5.0	84.0			
	430	KRAK	41	F	1013.6	1023.8	18.0	40.0			
	113	POTS	4	S/F	1015.0	1015.0	.3	380.0	100.0	III	
	536	ONDR	3	S	1018.9	1019.2	.8	15.0			
	536	ONDR	3	S	1021.7	1022.2	.9	6.0			
	930	BORD	46	C	1033.6	1034.9	1.8	112.0	9.0		
	808	ONDR	7	C	1033.8	1034.9	1.4	85.0	27.0		
	536	ONDR	4	S/F	1033.8	1034.9	1.8	35.0	9.0		
	950	GORK	4	S/F	1033.8	1035.0	1.6	73.0			
	650	GORK	4	S/F	1033.9	1035.0U	1.4	24.0D			
	810	KRAK	8	S	1034.3	1034.9	.9	170.0			
	100	GORK	8	S	1034.4	1034.9	1.2	540.0D			
	536	ONDR	4	S/F	1049.7	1050.9	1.2U	46.0	20.0		

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28	2650	DWIN	45	C	1100.0U		5.0U	250.0	100.0		
	6100	KISV	27	RF	1111.0	1113.5	5.0	4.0			
	930	BORD	41	F	1114.0	1114.4	1.0	19.0	2.0		
	113	POTS	8	S	1121.0	1121.0	.2	1100.0	350.0		
	430	KRAK	41	F	1151.4	1159.2	15.0	50.0			
	430	KRAK	41	F	1229.4	1233.9	12.5	48.0			
	610	SGMR	8	S	1249.8	1250.5	1.0	31.0			QL=6 ST=2 TYP=3
	430	KRAK	8	S	1250.0	1250.0	.3	570.00			
	536	ONDR	40	F	1255.8	1256.1	1.6	6.0	6.0		
	430	KRAK	45	C	1305.4	1306.5	1.1U	450.0	46.0		
	536	ONDR	45	C	1305.8	1308.6U	34.5	84.0	25.0		
	2800	OTTA	2	S/F	1306.0	1307.0	3.0	4.8	2.2		
	1470	POTS	22	GRF	1306.0	1317.5	53.0	10.0			
	113	POTS	4	S/F	1306.2	1307.1	1.4	300.0	30.0		
	610	SGMR	47	GB	1307.1	1308.1	5.0	50.0			QL=6 ST=2 TYP=5
	410	SGMR	47	GB	1307.1	1308.3	5.0	110.0			QL=6 ST=2 TYP=5
	2800	OTTA	21	GRF	1315.0	1340.0	165.0	10.2	5.1		
	2800	OTTA	2	S/F	1316.5	1317.5	10.0	6.4	3.0		
	2695	SGMR	8	S	1317.1	1319.1	2.0	18.0			QL=6 ST=2 TYP=3
	610	SGMR	8	S	1320.1	1322.0	2.0	44.0			QL=6 ST=2 TYP=3
	15400	SGMR	4	S/F	1326.0	1326.1	100.0	28.0			QL=6 ST=2 TYP=3
	9400	HUAN	20	GRF	1326.7	1339.7	35.4	15.9	5.3		0
	610	SGMR	47	GB	1326.8	1328.1	3.0	61.0			QL=6 ST=2 TYP=5
	410	SGMR	4	S/F	1330.1	1330.5	50.0	20.0			QL=6 ST=2 TYP=3
	15400	SGMR	8	S	1338.3	1339.1	1.0	30.0			QL=6 ST=2 TYP=3
	8800	SGMR	8	S	1338.8	1339.1	1.0	17.0			QL=6 ST=2 TYP=3
	808	ONDR	7	C	1407.0	1407.4	2.2	46.0	38.0		
	930	BORD	46	C	1407.3	1408.4	2.6	175.0	8.0		
	930	BORD	41	F	1422.0	1422.2	.4	16.0	2.0		
	113	POTS	42	SER	1422.0	1426.4	11.0	350.0	6.0		
	2800	OTTA	1	S	1452.0	1452.6	1.3	4.0	2.0		
	930	BORD	46	C	1452.3	1452.9	1.5	50.0	4.0		
	245	SGMR	47	GB	1452.6	1452.8	1.0	290.0			QL=6 ST=3 TYP=5
	410	SGMR	4	S/F	1454.1	1454.3	500.0	33.0			QL=6 ST=3 TYP=3
	930	BORD	46	C	1516.5	1516.8	.6	194.0	7.0		
	930	BORD	46	C	1700.8	1700.9	1.0	58.0	2.0		
	930	BORD	42	SER	1730.0	1730.0	5.0	175.0	4.0		
	410	SGMR	47	GB	1732.1	1732.6	2.0	300.0			QL=6 ST=2 TYP=5
	245	SGMR	49	GB	1732.5	1732.8	2.0	2300.0			QL=6 ST=2 TYP=6
	610	SGMR	47	GB	1733.5	1733.8	30.0	60.0			QL=6 ST=2 TYP=5
	2800	OTTA	21	GRF	1945.0	2035.0	95.0	4.8			
	9400	HUAN	1	S	1959.2	2000.6	5.6	14.2	7.3		R
	15400	SGMR	4	S/F	2000.6	2001.0	10.0	32.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	2000.8	2001.0	1.0	2.4			
	9400	HUAN	20	GRF	2021.8	2029.0	17.4	7.1	.4		L
	2800	OTTA	3	S	2022.7	2023.1	1.5	16.0	4.0		
	2800	OTTA	1	S	2106.0	2106.7	1.5	2.4	1.2		
	1000	TYKW	45	C	2236.0	2237.1	2.5	31.0	2.5		
	3750	TYKW	21	GRF	2250.0	2315.0	140.0	4.0	2.0		
	245	LEAR	47	GB	2258.3	2258.5	276.4	260.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	2258.3	2258.5	276.4	18.0			QL=6 ST=2 TYP=3
	2000	TYKW	21	GRF	2345.0	0012.0	70.0	4.0	2.0		
	3750	TYKW	45	C	2345.0	2358.4	20.0	14.0	7.00		
	1000	TYKW	45	C	2350.0	2354.7	6.0	3.0	.7		
	2000	TYKW	5	S	2353.0	2355.0	7.0	6.0	2.5		
	4995	LEAR	4	S/F	2353.1	2357.8	6.0	22.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	2353.3	2355.0	6.0	10.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	2353.8	2357.8	6.0	24.0			QL=6 ST=2 TYP=3
	9400	TYKW	45	C	2357.0	2358.3	2.0	17.0	7.0		
	8800	PALE	8	S	2357.6	2358.3	2.0	19.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	2359.0		15.0	5.0	2.0		
29	200	GORK	44	NS	0414.0E	1042.8	467.00		5.0		
	260	ONDR	44	NS	0644.0E	0840.0U	444.00	15.0U			
	245	SGMR	43	NS	1052.0	2013.8		650.0			QL=6 ST=3 TYP=1
	610	LEAR	43	NS	2247.0	0652.8	682.00	530.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2247.0	0658.6	682.00	540.0			QL=6 ST=2 TYP=1
	410	LEAR	43	NS	2247.0	0703.1	682.00	180.0			QL=6 ST=2 TYP=1
	9400	TYKW	29	PBI	0005.0		55.0	7.0	3.5		
	9400	TYKW	5	S	0059.3	0059.7	1.5	10.0	3.0		

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29	2000	TYKW	5	S	0114.5	0115.1	2.5	6.0	1.5		
	1000	TYKW	5	S	0115.0	0115.2	1.0	4.0	.7		
	3750	TYKW	5	S	0140.0	0140.9	6.0	34.0	5.0		
	9400	TYKW	5	S	0140.0	0140.9	5.0	182.0	18.0		
	2000	TYKW	5	S	0140.0	0141.0	4.0	18.0	3.5		
	2840	PEKG	1	S	0140.0	0141.0	7.0	20.7	2.4		
	9395	PEKG	5	S	0140.0	0141.0	8.0	116.0	5.2		
	500	HIRA	45	C	0140.3	0140.5	.4	100.0	15.0		SR
	1000	TYKW	45	C	0140.5	0140.8	3.5	37.0	5.0		
	17000	NOBE	3	S	0140.8	0140.9	.6	133.0			0
	606	MANI	3	S	0140.8	0141.0	1.7	12.9	4.3		
	4995	MANI	3	S	0140.8	0141.3	1.4	91.4	30.5		
	35000	NAGO	5	S	0141.0	0141.0	3.0	12.0			
	1415	MANI	3	S	0141.0	0141.2	2.0	36.1	12.0		
	2695	MANI	3	S	0141.0	0141.3	.5	59.4	19.8		
	8800	MANI	3	S	0141.0	0141.3	2.0	206.4	68.8		
	17000	NOBE	29	PBI	0141.4	0141.4	3.0	25.0			L
	1000	TYKW	29	PBI	0144.0		10.0	1.5	.7		
	2000	TYKW	29	PBI	0144.0		6.0	2.0	1.0		
	9395	PEKG	29	PBI	0148.0	0216.0	31.0	10.4	3.9		
	1000	TYKW	5	S	0159.0	0159.4	2.0	2.0	.5		
	9395	PEKG	1	S	0320.0	0322.3	5.0	8.6	2.7		
	9400	TYKW	21	GRF	0330.0	0402.0	150.0	14.0	7.0		
	9400	TYKW	5	S	0331.0	0332.4	6.0	5.0	2.0		
	2000	TYKW	45	C	0331.0	0332.6	9.0	35.0	6.0		
	1000	TYKW	45	C	0331.0	0334.1	5.0	14.0	3.0		
	3750	TYKW	21	GRF	0331.0	0346.0	120.0	5.0	2.5		
	3750	TYKW	5	S	0331.7	0332.5	2.0	7.0	3.0		
	2840	PEKG	20	GRF	0332.0	0332.5	81.0	13.8	2.9		
	2000	TYKW	30	PBI	0340.0		130.0	3.0	1.5		
	1000	TYKW	5	S	0353.0	0356.2	7.0	3.0	1.5		
	2000	TYKW	45	C	0354.0	0356.2	6.0	13.0	3.0		
	3750	TYKW	20	GRF	0354.0	0402.0	85.0	6.0	3.0		
	17000	NOBE	20	GRF	0355.7	0437.5	70.0	25.0			0
	2000	TYKW	29	PBI	0400.0		30.0	2.5	1.0		
	1000	TYKW	45	C	0410.0	0416.8	15.0	15.0	2.0		
	2000	TYKW	5	S	0411.0	0416.7	12.0	8.0	1.5		
	500	HIRA	45	C	0415.1	0415.6	2.6	230.0	25.0		MR
	950	GORK	3	S	0415.3	0416.8	3.7	10.0			
	200	GORK	41	F	0415.9E	0416.0	8.6D	280.0			
	200	GORK			0415.9E	0423.9		280.0D			
	100	GORK	46	C	0419.9	0421.1	4.2	60.0D			
	100	GORK			0419.9	0422.0U		60.0D			
	100	GORK			0419.9	0423.3		60.0D			
	950	GORK	21	GRF	0430.0	0545.0	450.0D	5.0			
	9395	PEKG			0435.0	0437.2					
	2000	TYKW	20	GRF	0435.0	0437.5	30.0	3.0	1.0		
	9395	PEKG	45	C	0435.0	0449.2	19.0	17.0	3.7		
	1000	TYKW	5	S	0436.0	0437.4	3.0	1.5	.5		
	9400	TYKW	45	C	0436.0	0449.1	13.1U	19.0	6.0		
	9100	GORK	23	GRF	0443.0	0908.0	437.0	25.0			
	2950	GORK	23	GRF	0445.0E	0448.0	435.0D	12.7			
	9100	GORK	2	S/F	0447.3	0449.1	2.5	13.0			
	100	GORK	8	S	0451.0	0451.7	1.0	60.0D			
	650	GORK	23	GRF	0539.6	1135.0	381.0D	6.0			
	113	POTS	42	SER	0718.1	0730.6	16.0	340.0	6.0		III
	204	IZMI	4	S/F	0730.0	0730.6	1.0	70.0			
	200	GORK	4	S/F	0730.0	0730.9	1.5	60.0D			
	950	GORK	2	S/F	0730.0	0731.6	3.4	2.6			
	29	UPIC	42	SER	0730.0	0931.2	186.4				
	100	GORK	41	F	0730.4	0730.6	2.9	130.0D			
	100	GORK			0730.4	0732.5		130.0			
	234	POTS	4	S/F	0730.5	0730.6	.4	850.0	200.0		III
	2950	GORK	1	S	0730.5	0730.7	.9	2.3	1.1		
	33	UPIC	42	SER	0730.5	0930.8	186.1				
	650	GORK	4	S/F	0730.9	0731.1	.9	9.0	3.0		
	204	IZMI	41	F	0804.8	0805.2	1.5	870.0			
	930	BORD	46	C	0805.0	0805.8	3.0	85.0	8.0		
	2840	PEKG	1	S	0805.0	0805.8	3.0	16.8	1.9		
	9395	PEKG	1	S	0805.0	0805.8	5.0	28.4	2.9		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
29	810	KRAK	2	S/F	0805.2	0805.5	1.5	30.0	9.0		
	950	GORK	4	S/F	0805.2	0805.8	2.5	69.0			
	4995	MANI	3	S	0805.2	0806.1	1.6	43.8	14.6		
	536	ONDR	4	S/F	0805.3	0805.4	4.7	8.0	4.0		
	430	KRAK	8	S	0805.3	0805.5	.8	420.0			
	2950	GORK	4	S/F	0805.3	0805.7	1.5	13.8	6.0		
	15000	KISV	4	S/F	0805.3	0805.7	1.5	17.0			
	9100	GORK	1	S	0805.3	0805.7	1.1	28.0	14.0		
	2000	TYKW	5	S	0805.3	0805.7	1.5	15.0	5.0		
	606	MANI	1	S	0805.3	0805.8	1.5	9.0	3.0		
	1000	TYKW	45	C	0805.3	0805.9	1.5	57.0	2.0		
	1470	POTS	3	S	0805.4	0805.6	2.1	34.0			
	3000	POTS	3	S	0805.4	0805.7	1.6	16.0			
	3100	CRIM	1	S	0805.4	0805.8	3.0	13.0	4.0		
	6100	KISV	4	S/F	0805.4	0805.8	1.5	27.0			
	650	GORK	4	S/F	0805.4	0806.0	1.7	13.5	4.0		
	234	POTS	42	SER	0805.5	0805.6	21.0	480.0	5.0		III
	113	POTS	42	SER	0805.5	0805.6	21.0	1400.0	35.0		III
	9400	TYKW	5	S	0805.5U	0805.7	1.5U	34.0U	11.0		
	3750	TYKW	5	S	0805.5	0805.7	1.5	23.0	8.0		
	9500	POTS	3	S	0805.5	0805.8	1.5				
	1415	MANI	1	S	0805.6	0806.0	1.2	7.8	2.6		
	2695	MANI	3	S	0805.6	0806.0	1.6	13.8	4.6		
	8800	MANI	3	S	0805.6	0806.2	1.2	40.6	13.5		
	808	ONDR	7	C	0805.9	0806.3	3.3	42.0	16.0		
	200	GORK	41	F	0818.9	0819.4	6.8	60.0D			
	200	GORK			0818.9	0825.7		470.0			
	100	GORK	41	F	0819.0	0819.0U	6.7	125.0D			
	204	IZMI	41	F	0819.0	0819.1	6.8	1600.0			
	100	GORK			0819.0	0820.7		325.0			
	100	GORK			0819.0	0825.5		1500.0D			
	950	GORK	3	S	0820.5	0820.6	.3	10.0			
	930	BORD	8	S	0820.5	0820.7	.4	13.0	2.0		
	100	GORK	8	S	0845.4	0845.5	2.5	130.0D			
	6100	KISV	4	S/F	0904.7	0907.4	13.0	62.0			
	9395	PEKG	3	S	0905.0	0907.6	8.0D	83.0	5.9		
	8400	BERN	45	C	0906.0U	0907.0U	17.0U	109.0			ONLY PAPER REC
	11800	BERN	45	C	0906.0U	0907.0U	17.0U	104.0			ONLY PAPER REC
	15000	KISV	8	S	0906.2	0907.4	1.5	99.0			
	4995	MANI	4	S/F	0906.5	0907.2	1.3	39.4	13.1		
	9500	POTS	29	PBI	0906.5	0907.4	11.0				
	3000	POTS	1	S	0906.5	0907.5	1.5	6.0			
	8800	MANI	4	S/F	0906.5	0907.8	1.5	115.4	38.5		
	9100	GORK	4	S/F	0906.6	0907.4	2.1	122.0			
	430	KRAK	42	SER	0910.2	0914.8	36.0	160.0			
	430	KRAK			0910.2	0930.5		300.0			
	15000	KISV	2	S/F	0911.8	0912.4	.6	14.0			
	6100	KISV	2	S/F	0912.2	0912.4	.5	6.0			
	200	GORK	4	S/F	0914.0	0915.2U	2.2	60.0D			
	100	GORK	41	F	0914.7	0915.5U	16.5	150.0D			
	100	GORK			0914.7	0930.7		150.0D			
	204	IZMI	46	C	0914.8	0914.9	1.5	2500.0	500.0		
	113	POTS	42	SER	0914.8	0931.0	17.0	2200.0	10.0		III/V
	234	POTS	42	SER	0914.8	0931.0	17.0	2900.0	6.0		III/V
	650	GORK	4	S/F	0915.0	0915.6	1.1	13.0	4.5		
	950	GORK	2	S/F	0915.0	0915.6	1.1	6.0			
	810	KRAK	42	SER	0915.0	0930.4	20.0	110.0			
	536	ONDR	8	S	0915.7	0915.9	.1	27.0			
	930	BORD	46	C	0929.7	0930.5	2.0	68.0	7.0		
	200	GORK	4	S/F	0930.0	0931.0	1.7	60.0D			
	650	GORK	4	S/F	0930.2	0931.0U	1.1	23.0D			
	950	GORK	4	S/F	0930.3	0930.6	1.2	35.0			
	536	ONDR	8	S	0930.3	0931.1	1.1	50.0			
	127	TORN	8	S	0930.4	0931.0	1.5	6800.0	3400.0		
	808	ONDR	2	S/F	0930.5	0930.7	1.8	42.0	29.0		
	3100	CRIM	1	S	0930.5	0930.8	2.0	22.0	7.0		
	610	LEAR	47	GB	0930.5	0930.8	1.0	97.0			QL=6 ST=3 TYP=5
	3000	POTS	3	S	0930.5	0930.9	1.0	21.0			
	9500	POTS	1	S	0930.5	0930.9	1.4				
	2950	GORK	3	S	0930.6	0930.9	1.0	19.5	9.5		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
29	6100	KISV	8	S	0930.6	0930.9	1.0	22.0			
	204	IZMI	8	S	0930.7	0930.8	.4	5000.0	1500.0		
	4995	LEAR	8	S	0930.8	0930.8	1.0	23.0			QL=6 ST=3 TYP=3
	2695	LEAR	8	S	0930.8	0930.8	1.0	18.0			QL=6 ST=3 TYP=3
	9100	GORK	1	S	0930.8	0930.9	.7	20.0	10.0		
	1415	LEAR	8	S	0930.8	0931.0	1.0	24.0			QL=6 ST=3 TYP=3
	8800	LEAR	8	S	0930.8	0931.0	1.0	10.0			QL=6 ST=3 TYP=3
	1470	POTS	3	S	0930.8	0931.0	.7	19.0			
	245	LEAR	49	GB	0930.8	0931.0	1.0	990.0			QL=6 ST=3 TYP=6
	410	LEAR	47	GB	0930.8	0931.0	1.0	92.0			QL=6 ST=3 TYP=5
	2950	GORK	1	S	0935.6	0935.8	.6	3.4	1.7		
	650	GORK	4	S/F	0935.7	0936.0	.5	7.0	3.0		
	950	GORK	2	S/F	1010.2	1010.4	2.8	3.5			
	810	KRAK	42	SER	1010.2	1041.0	30.8U	170.0			
	930	BORD	46	C	1010.3	1011.0	1.6	18.0	2.0		
	113	POTS	8	S	1016.0	1016.0	.1	300.0	100.0		III
	430	KRAK	42	SER	1016.3	1039.0	84.0	560.00			
	430	KRAK			1016.3	1102.8		55.0			
	650	GORK	4	S/F	1018.3	1018.8	.8	12.5	4.5		
	950	GORK	2	S/F	1018.4	1018.8	.7	8.0			
	930	BORD	46	C	1018.4	1018.8	.6	14.0	3.0		
	9100	GORK	2	S/F	1028.1	1029.0	1.2	24.0			
	808	ONDR	42	SER	1037.2	1043.9	7.8	66.0	12.0		
	536	ONDR	42	SER	1037.6	1038.7	6.4	182.0			
	930	BORD	42	SER	1038.0	1038.4	6.0	92.0	3.0		
	950	GORK	41	F	1038.2	1038.4	6.6	21.0			
	950	GORK			1038.2	1040.8		14.0			
	950	GORK			1038.2	1043.0		11.0			
	200	GORK	8	S	1038.3	1038.4	.7	40.0			
	650	GORK	41	F	1038.3	1038.5	4.7	22.0			
	650	GORK			1038.3	1041.5		150.0			
	650	GORK			1038.3	1042.8		69.0			
	200	GORK	4	S/F	1129.5	1129.9	1.7	60.00			
	100	GORK	46	C	1129.6	1129.8	1.4	150.00			
	100	GORK			1129.6	1130.7		150.00			
	113	POTS	42	SER	1129.7	1130.0	7.6	125.0	1.0		III
	2800	OTTA	27A	RF	1250.0		270.0	4.0	3.6		
	2800	OTTA	24	R	1250.0	1310.0	20.0	4.0	2.0		
	2800	OTTA	24P	R	1310.0		210.0	4.0			
	113	POTS	4	S/F	1405.9	1406.3	1.2	230.0	7.0		III
	930	BORD	42	SER	1428.0	1428.4	7.0	105.0	2.0		
	9400	HUAN	3	S	1457.2	1458.0	2.1	26.5	8.2		0
	2800	OTTA	20	GRF	1530.0	1535.0	30.0	2.8	1.8		
	9400	HUAN	22	GRF	1604.2	1625.2	44.6	15.9	7.4		0
	2800	OTTA	26	FAL	1640.0	1720.0	40.0	4.0	2.0		
	2800	OTTA	2	S/F	1653.0	1656.5	6.0	4.8			
	930	BORD	46	C	1655.3	1655.5	2.7	165.0	4.0		
	2800	OTTA	22	GRF	1720.0	1836.0	115.0	6.2	2.8		
	9400	HUAN	23	GRF	1729.6	1820.5	99.5	14.1	6.9		R
	9400	HUAN	1	S	1749.5	1750.2	1.8	8.8	4.7		R
	9400	HUAN	1	S	1852.4	1853.6	2.5	7.0	3.1		R
	9400	HUAN	3	S	1939.5	1940.3	1.7	54.7	20.5		R
	2800	OTTA	21	GRF	1940.0	2022.0	170.0	10.2	5.4		
	9400	HUAN	2	S/F	1943.2	1945.3	4.6	19.4	9.1		0
	9400	HUAN	29	PBI	1947.8	1947.8	14.7	8.8	3.8		0
	2695	PENT	1	S	2012.0	2012.3	3.0	2.0	1.5		
	4995	PALE	8	S	2110.8	2111.1	1.0	37.0			QL=6 ST=2 TYP=3
	4995	SGMR	8	S	2110.8	2111.1	2.0	40.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	2110.8	2111.2	4.0	4.8	2.4		
	8800	SGMR	4	S/F	2111.1	2111.1	10.0	18.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	2112.6	2112.8		500.0			QL=6 ST=2 TYP=5
	3750	TYKW	20	GRF	2214.0	2224.0	30.0	3.0	1.5		
	1000	TYKW	45	C	2221.0	2223.4	9.0	12.0	2.0		
	9400	TYKW	5	S	2221.0	2224.0	12.0	5.0	2.0		
	1000	TYKW	5	S	2235.3	2235.5	.5	37.0	7.0		
	1000	TYKW	45	C	2238.3	2239.2	2.0	15.0	4.0		
	9400	TYKW	5	S	2256.0	2300.6	6.0	22.0	8.0		
	3750	TYKW	21	GRF	2258.0	2345.0	185.0	5.0	2.0		
	1000	TYKW	45	C	2258.8	2259.7	3.0	56.0	4.0		
	3750	TYKW	5	S	2259.0	2300.7	7.0	3.0	1.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
29	610	LEAR	47	GB	2259.1	2259.6	2.0	260.0			QL=6 ST=2 TYP=5
	410	LEAR	47	GB	2259.3	2259.6	266.4	139.0			QL=6 ST=2 TYP=5
	410	PALE	47	GB	2259.3	2259.6		189.0			QL=6 ST=2 TYP=5
	8800	PALE	4	S/F	2300.3	2300.6	20.0	23.0			QL=6 ST=2 TYP=3
	15400	PALE	4	S/F	2300.5	2300.6	10.0	21.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	2302.0		20.0	8.0	3.0		
	410	LEAR	4	S/F	2322.0	2322.1	2664.0	20.0			QL=6 ST=2 TYP=3
	610	LEAR	4	S/F	2322.0	2322.1	20.0	7.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	2322.1	2322.1	266.4	440.0			QL=6 ST=2 TYP=5
	9400	TYKW	5	S	2329.0	2340.4	20.0	6.0	1.5		
	1000	TYKW	45	C	2329.4	2331.4	2.5	28.0	3.0		
	1000	TYKW	45	C	2344.0	2345.2	2.0	4.0	1.0		
	245	LEAR	47	GB	2350.0	2350.1	2664.0	290.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	2350.0	2350.1	425.6	8.0			QL=6 ST=2 TYP=3
30	208	VORO	43	NS	0232.0		28.0D				
	33	UPIC	43	NS	0541.4		565.6				
	200	GORK	43	NS	0543.0		245.0		90.0		
	204	IZMI	44	NS	0600.0E		215.0D	40.0			
	29	UPIC	44	NS	0611.0E		535.6D				
	100	GORK	43	NS	0613.0		215.0D		15.0		
	260	ONDR	44	NS	0630.0E		464.0D				
	127	TORN	44	NS	0700.0E	1034.5	430.0D	30.0			V1
	410	SGMR	43	NS	1050.0	1315.1	714.0D	75.0			QL=6 ST=3 TYP=1
	245	SGMR	43	NS	1050.0	1715.8	714.0D	119.0			QL=6 ST=3 TYP=1
	410	LEAR	43	NS	2247.0	2335.3	681.0D	35.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2247.0	2343.3	681.0D	210.0			QL=6 ST=2 TYP=1
	1000	TYKW	5	S	0003.6	0004.0	.5	6.0	1.5		
	3750	TYKW	20	GRF	0007.0	0018.0	35.0	4.0	1.5		
	3750	TYKW	5	S	0048.0	0055.0	20.0	2.0	1.0		
	9400	TYKW	5	S	0052.0	0101.0	20.0	14.0	4.0		
	245	LEAR	47	GB	0112.5	0112.6	425.6	360.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	0112.5	0112.6		370.0			QL=6 ST=2 TYP=5
	1000	TYKW	5	S	0112.5	0112.7	.6	1.5	.5		
	2000	TYKW	5	S	0112.5	0112.7	1.0	2.0	.5		
	3750	TYKW	21	GRF	0115.0	0135.0	50.0	5.0	2.0		
	9395	PEKG			0120.0	0130.8		23.0			
	9400	TYKW	20	GRF	0125.0	0130.0	40.0	4.0	2.0		
	3750	TYKW	5	S	0144.0	0149.0	18.0	3.0	1.5		
	1000	TYKW	45	C	0146.0	0147.1	20.0	4.0	.5		
	410	LEAR	4	S/F	0148.3	0148.5	979.2	11.0			QL=6 ST=2 TYP=3
	245	LEAR	4	S/F	0148.3	0148.5	979.2	24.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	0216.0	0218.8	8.0	6.0	1.5		
	3750	TYKW	28	PRE	0231.0	0237.0	6.5	4.0	2.0		
	1000	TYKW	45	C	0231.0	0239.9	22.0	41.0	3.0		
	500	HIRA			0231.6	0233.0		400.0			WR
	500	HIRA	46	C	0231.6	0239.4	10.0	120.0	30.0		WL
	410	LEAR	49	GB	0231.8	0233.3	9.0	219.0			QL=6 ST=3 TYP=6
	8800	LEAR	47	GB	0231.8	0233.8	12.0	10.0			QL=6 ST=3 TYP=5
	2000	TYKW	28	PRE	0232.0	0233.2	6.0	8.0	2.0		
	9400	TYKW	28	PRE	0232.0	0233.6	5.0	10.0	7.0		
	245	LEAR	49	GB	0232.0	0233.8	7.0	52.0			QL=6 ST=3 TYP=6
	9395	PEKG	3	S	0232.0	0239.1	18.0	98.0	6.4		
	15400	LEAR	47	GB	0232.1	0233.1	10.0	13.0			QL=6 ST=3 TYP=5
	610	LEAR	49	GB	0232.8	0233.1	9.0	74.0			QL=6 ST=3 TYP=6
	410	PALE	47	GB	0232.8	0233.1	2.0	200.0			QL=6 ST=2 TYP=5
	8800	PALE	47	GB	0232.8	0234.1	8.0	37.0			QL=6 ST=2 TYP=5
	15400	PALE	47	GB	0233.0	0235.0	6.0	42.0			QL=6 ST=2 TYP=5
	2840	PEKG	5	S	0233.0	0238.9	12.0	19.4	3.2		
	208	VORO	4	S/F	0235.0	0239.0	5.0	250.0D			
	1415	LEAR	4	S/F	0235.3	0236.6	7.0	21.0			QL=6 ST=3 TYP=3
	9400	TYKW	5	S	0237.0	0239.0	5.0	100.0	28.0		
	4995	MANI	3	S	0237.0	0239.3	3.0	49.6	16.5		
	8800	MANI	3	S	0237.0	0239.3	3.0	95.7	31.9		
	4995	LEAR	4	S/F	0237.3	0239.0	6.0	50.0			QL=6 ST=3 TYP=3
	3750	TYKW	45	C	0237.5	0239.0	4.5	38.0	14.0		
	4995	PALE	47	GB	0237.6	0238.8	4.0	56.0			QL=6 ST=2 TYP=5
	2695	LEAR	4	S/F	0237.6	0238.8	4.0	30.0			QL=6 ST=3 TYP=3
	17000	NOBE	3	S	0237.6	0238.9	2.6	80.0			0
	2695	MANI	3	S	0237.7	0239.0	2.3	29.8	9.9		

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30	1415	MANI	4	S/F	0238.0	0238.5	2.2	16.8	5.6		
	2000	TYKW	45	C	0238.0	0238.7	4.0	33.0	11.0		
	35000	NAGO	5	S	0238.0	0239.0	3.0	25.0			
	606	MANI	4	S/F	0238.0	0239.0	2.2	39.6	13.2		
	245	PALE	49	GB	0238.1	0238.6	1.0	1100.0			QL=6 ST=2 TYP=6
	2695	PALE	8	S	0238.1	0238.6	1.0	34.0			QL=6 ST=2 TYP=3
	1415	PALE	8	S	0238.6	0238.8	1.0	26.0			QL=6 ST=2 TYP=3
	610	PALE	47	GB	0238.8	0239.0	1.0	189.0			QL=6 ST=2 TYP=5
	17000	NOBE	29	PBI	0240.2	0240.2	8.0	21.0			0
	3750	TYKW	29	PBI	0242.0		13.0	4.0	2.0		
	2000	TYKW	30	PBI	0242.0		14.0	3.0	1.5		
	9400	TYKW	29	PBI	0242.0		9.0	10.0	5.0		
	410	LEAR	47	GB	0243.1	0243.6	1.0	63.0			QL=6 ST=2 TYP=5
	1415	LEAR	47	GB	0243.6	0244.1	1.0	67.0			QL=6 ST=2 TYP=5
	2000	TYKW	5	S	0243.7	0244.1	.8	7.0	2.0		
	245	LEAR	47	GB	0243.8	0244.1	1.0	83.0			QL=6 ST=2 TYP=5
	1000	TYKW	30	PBI	0253.0		45.0	3.0	1.5		
	1000	TYKW	5	S	0305.7	0306.6	1.5	7.0	1.5		
	3750	TYKW	21	GRF	0350.0	0422.0	60.0	3.0	1.5		
	1000	TYKW	5	S	0353.7	0353.8	.5	1.5	.5		
	1000	TYKW	45	C	0403.7	0403.8	30.0	2.0	.7		
	9400	TYKW	5	S	0409.5	0409.9	1.5	8.0	2.5		
	3750	TYKW	5	S	0424.0	0424.7	4.0	5.0	1.5		
	950	GORK	27	RF	0424.0	0700.0	378.00	27.0			
	9400	TYKW	5	S	0424.4	0424.6	1.5	5.0	1.5		
	100	GORK	46	C	0434.8	0435.1	1.4	120.00			
	100	GORK			0434.8	0435.5		120.00			
	9395	PEKG	28	PRE	0449.0	0451.4	25.0	14.0	.2		
	9400	TYKW	5	S	0452.5	0453.0	3.5	10.0	2.5		
	9100	GORK	20	GRF	0452.7	0453.0	10.4	9.0			
	1000	TYKW	5	S	0500.5	0500.9	1.5	2.0	.7		
	2950	GORK	47	GB	0514.0	0537.2	75.0	2100.0			
	2950	GORK			0514.0	0600.3		1790.0			
	8800	MANI	47	GB	0519.0	0537.2	112.0	1650.0	604.0		
	9395	PEKG	47	GB	0519.0	0537.8	55.0	1736.0	100.0		
	4995	MANI	47	GB	0519.0	0539.8	114.0	2500.0	910.0		
	6100	KISV			0520.0	0529.5		90.0			
	6100	KISV	47	GB	0520.0	0540.0	26.0	750.0			
	15000	KISV			0521.0	0529.2		130.0			
	9400	TYKW	28	PRE	0521.0	0529.3	11.0	180.0	55.0		
	15000	KISV			0521.0	0533.5		560.0			
	9100	GORK	47	GB	0521.0	0533.6	23.5	616.0			
	15000	KISV	47	GB	0521.0	0537.0U	37.0	1630.00			
	9100	GORK			0521.0	0537.5		1710.0			
	15000	KISV			0521.0	0538.4		1630.0			
	9100	GORK			0521.0	0540.0		1530.0			
	15000	KISV			0521.0	0540.2		1470.0			
	3750	TYKW	47	GB	0521.0	0540.3	70.0	1300.0	150.0		
	17000	NOBE	47	GB	0521.5	0537.3	33.5	1320.0			R
	500	HIRA	45	C	0522.0	0522.3	1.3	350.0	60.0		SL
	650	GORK	28	PRE	0522.0	0522.4	1.6	24.0			
	8800	LEAR	49	GB	0522.0	0522.6	16.0	80.0			QL=6 ST=2 TYP=7
	1415	MANI	47	GB	0522.0	0537.2	164.0	9500.0	4800.0		
	1000	TYKW			0522.0	0537.4		3280.0			
	2000	TYKW	47	GB	0522.0	0543.1	118.0	10200.0	350.0		
	2695	MANI	47	GB	0522.0	0600.5	115.0	3900.0	1630.0		
	606	MANI	47	GB	0522.0	0609.8	157.0	4050.0	1820.0		
	1000	TYKW			0522.0	0618.3		53000.0			
	1000	TYKW	47	GB	0522.0	0626.7	83.0	54600.0	1000.0		
	15400	LEAR	49	GB	0522.1	0522.6	16.0	51.0			QL=6 ST=2 TYP=7
	8800	ATHN	49	GB	0522.3	0523.3	101.0	100.0			QL=6 ST=2 TYP=6
	4995	LEAR	49	GB	0522.6	0522.6	16.0	18.0			QL=6 ST=2 TYP=7
	1415	LEAR	49	GB	0522.6	0522.8	16.0	13.0			QL=6 ST=2 TYP=7
	4995	ATHN	49	GB	0522.6	0523.3	101.0	17.0			QL=6 ST=2 TYP=6
	1415	ATHN	49	GB	0523.5	0534.0	101.0	160.0			QL=6 ST=2 TYP=6
	2695	ATHN	49	GB	0523.5	0534.0	100.0	230.0			QL=6 ST=2 TYP=6
	950	GORK	49	GB	0526.3	0547.0	73.0	1540.0			
	950	GORK			0526.3	0614.0		3470.00			
	950	GORK			0526.3	0619.6		3470.00			
	2840	PEKG			0527.0	0538.5	35.0	353.00			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean	Int	Remarks
30	2840	PEKG	47	GB	0527.0	0600.4		707.0			
	2840	PEKG			0527.0	0654.7		625.0			
	2695	LEAR	49	GB	0527.6	0530.8	11.0	74.0			QL=6 ST=2 TYP=7
	610	LEAR	49	GB	0528.1	0528.1	10.0	30.0			QL=6 ST=2 TYP=7
	500	HIRA	48	C	0531.4	0600.5	156.0	2000.0	350.0		SL
	35000	NAGO	45	C	0532.0	0533.0	15.0	170.0			
	35000	NAGO			0532.0	0536.0		110.0			
	9400	TYKW	47	GB	0532.0	0537.5	58.0	1890.0	300.0		
	35000	NAGO			0532.0	0549.0		410.0			
	650	GORK	47	GB	0532.1	0540.3	55.4	500.0			
	650	GORK			0532.1	0602.0		600.0			
	650	GORK			0532.1	0609.5		620.0			
	650	GORK			0532.1	0617.2		610.0			
	6100	KISV			0533.0	0533.5		266.0			
	200	GORK	2	S/F	0533.1	0533.4	.6	35.0			
	410	LEAR	49	GB	0533.3	0535.3	5.0	33.0			QL=6 ST=2 TYP=7
	200	GORK	8	S	0536.0	0536.2	.7	70.00			
	6100	KISV			0536.0	0537.4		632.0			
	245	LEAR	49	GB	0536.0	0537.8	2.0	21000.0			QL=6 ST=2 TYP=7
	6100	KISV			0536.0	0538.1		642.0			
	6100	KISV			0536.0	0538.9		653.0			
	200	GORK			0537.0	0539.7U	6.0	9000.00			
	234	POTS	46	C	0537.5	0538.7	6.5	37000.0	1500.0		III
	100	GORK	47	GB	0538.0	0538.3	304.0	1500.00			
	113	POTS	46	C	0538.0	0538.6	12.0	5600.0	300.0		III
	100	GORK			0538.0	0538.7		13000.00			
	100	GORK			0538.0	0541.6		58000.0			
	8800	LEAR	49	GB	0538.3	0540.8	12.0	2000.0			QL=6 ST=2 TYP=7
	4995	LEAR	49	GB	0538.3	0540.8	12.0	1100.0			QL=6 ST=2 TYP=7
	245	LEAR	49	GB	0538.3	0540.8	12.0	43999.0			QL=6 ST=2 TYP=7
	410	LEAR	49	GB	0538.3	0540.8	12.0	239.0			QL=6 ST=2 TYP=7
	610	LEAR	49	GB	0538.3	0540.8	12.0	30.0			QL=6 ST=2 TYP=7
	1415	LEAR	49	GB	0538.3	0540.8	12.0	13.0			QL=6 ST=2 TYP=7
	2695	LEAR	49	GB	0538.3	0540.8	12.0	860.0			QL=6 ST=2 TYP=7
	15400	LEAR	49	GB	0538.3	0540.8	12.0	1199.0			QL=6 ST=2 TYP=7
	9100	GORK	30	PBI	0545.0	0545.0	375.00	230.0			
	6100	KISV	29	PBI	0546.0	0546.0	100.0	120.0			
	35000	NAGO	29	PBI	0547.0	0547.0	73.0	88.0			
	15000	KISV	29	PBI	0548.0	0548.0	100.0	265.0			
	17000	NOBE	29	PBI	0555.0	0555.0	60.0	134.0			R
	8800	LEAR	47	GB	0555.0	0555.1	11.0	130.0			QL=6 ST=2 TYP=5
	1415	LEAR	49	GB	0555.0	0555.5	11.0	1199.0			QL=6 ST=2 TYP=6
	2695	LEAR	49	GB	0555.0	0555.6	11.0	880.0			QL=6 ST=2 TYP=6
	15400	LEAR	47	GB	0555.0	0555.8	11.0	139.0			QL=6 ST=2 TYP=5
	245	LEAR	49	GB	0555.0	0556.0	11.0	690.0			QL=6 ST=2 TYP=6
	410	LEAR	49	GB	0555.0	0557.1	11.0	500.0			QL=6 ST=2 TYP=6
	4995	LEAR	47	GB	0555.0	0557.1	11.0	81.0			QL=6 ST=2 TYP=5
	610	LEAR	49	GB	0555.0	0557.1	11.0	540.0			QL=6 ST=2 TYP=6
	3000	IZMI	46	C	0600.0		28.00	125.00			
	204	IZMI	25	R	0600.0		215.0	500.0	200.0		
	2840	PEKG	30	PBI	0602.0		14.00	82.4			
	2840	PEKG	41	F	0602.0	0604.2		101.5			
	2840	PEKG			0602.0	0604.5		53.2			
	2840	PEKG			0602.0	0610.5	10.0	40.0			
	610	LEAR	49	GB	0609.1	0609.5	12.0	3699.0			QL=6 ST=2 TYP=6
	4995	LEAR	47	GB	0609.1	0609.6	12.0	53.0			QL=6 ST=2 TYP=5
	245	LEAR	49	GB	0609.1	0609.6	12.0	500.0			QL=6 ST=2 TYP=6
	8800	LEAR	47	GB	0609.1	0609.6	12.0	90.0			QL=6 ST=2 TYP=5
	410	LEAR	49	GB	0609.1	0610.3	12.0	740.0			QL=6 ST=2 TYP=6
	2695	LEAR	47	GB	0609.1	0610.3	12.0	169.0			QL=6 ST=2 TYP=5
	1415	LEAR	49	GB	0609.1	0610.6	12.0	2399.0			QL=6 ST=2 TYP=6
	15400	LEAR	47	GB	0609.1	0611.0	12.0	81.0			QL=6 ST=2 TYP=5
	2840	PEKG	46	C	0612.0	0615.2	4.00	69.8			
	610	LEAR	49	GB	0623.8	0624.0	13.0	700.0			QL=6 ST=2 TYP=6
	8800	LEAR	4	S/F	0623.8	0624.3	13.0	46.0			QL=6 ST=2 TYP=3
	15400	LEAR	4	S/F	0623.8	0624.3	13.0	40.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0623.8	0624.3	13.0	30.0			QL=6 ST=2 TYP=3
	245	LEAR	49	GB	0623.8	0625.1	13.0	590.0			QL=6 ST=2 TYP=6
	410	LEAR	47	GB	0623.8	0625.3	13.0	400.0			QL=6 ST=2 TYP=5
	1415	LEAR	47	GB	0623.8	0625.8	13.0	139.0			QL=6 ST=2 TYP=5

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
30	2695	LEAR	47	GB	0623.8	0625.8	13.0	139.0			QL=6 ST=2 TYP=5
	2950	GORK	30	PBI	0627.0	0627.0	330.0D	64.0			
	650	GORK	30	PBI	0627.6	0627.6	332.0D	120.0			
	9400	TYKW	30	PBI	0630.0		120.0D	44.0	25.0D		
	3750	TYKW	30	PBI	0631.0		120.0U	24.0	11.0		
	410	LEAR	47	GB	0636.6	0637.8	10.0	270.0			QL=6 ST=2 TYP=5
	2695	LEAR	47	GB	0636.6	0637.8	10.0	71.0			QL=6 ST=2 TYP=5
	930	BORD	45	C	0637.0E	0749.7	124.0D	530.0	110.0		
	8800	LEAR	4	S/F	0637.8	0637.8	10.0	16.0			QL=6 ST=2 TYP=3
	15400	LEAR	4	S/F	0637.8	0637.8	10.0	13.0			QL=6 ST=2 TYP=3
	610	LEAR	47	GB	0637.8	0638.0	10.0	139.0			QL=6 ST=2 TYP=5
	4995	LEAR	4	S/F	0637.8	0638.6	10.0	20.0			QL=6 ST=2 TYP=3
	1415	LEAR	47	GB	0637.8	0639.1	10.0	80.0			QL=6 ST=2 TYP=5
	1000	TYKW	30	PBI	0645.0		100.0	22.0	12.0		
	3750	TYKW	45	C	0645.0	0647.1	4.0	7.0	1.5		
	1000	TYKW	45	C	0646.0	0646.2	8.0	40.0	5.0		
	1000	TYKW	28	PRE	0654.5	0714.1	26.0	30.0	4.0		
	430	KRAK	49	GB	0700.0E		52.0D	320.0U	80.0U		
	1470	POTS	46	C	0700.0	0737.4	65.0D	280.0			
	6100	KISV	4	S/F	0703.5	0706.4	6.0	68.0			
	3750	TYKW	45	C	0704.0	0706.2	13.0	30.0	6.0		
	9400	TYKW	45	C	0704.0	0706.3	12.0	99.0	16.0		
	9500	POTS	29	PBI	0704.0U	0706.4	51.0U				III
	11800	BERN	4	S/F	0704.8	0706.2	5.0	89.0			
	8400	BERN	4	S/F	0704.8	0706.2	5.0	113.0			
	8800	ATHN	47	GB	0705.0	0706.6	31.0	130.0			QL=6 ST=2 TYP=5
	4995	ATHN	47	GB	0705.0	0706.6	9.0	61.0			QL=6 ST=2 TYP=5
	9100	GORK	3	S	0705.2	0709.2	4.2U	100.0			
	15000	KISV	4	S/F	0705.4	0706.2	3.0	52.0			
	2950	GORK	1	S	0706.0	0706.3	1.5	7.7			
	17000	NOBE	1	S	0706.1	0706.3	1.0	17.0			0
	6100	KISV	3	S	0712.6	0713.9	4.0	7.0			
	2950	GORK	3	S	0712.9	0713.9	3.2	14.0			
	9400	TYKW	29	PBI	0716.0		35.0	13.0	7.0		
	9100	GORK	1	S	0716.3	0716.9	2.1	12.0	6.0		
	3750	TYKW	29	PBI	0717.0		30.0	6.0	3.5		
	1415	ATHN	47	GB	0719.6	0723.5	36.0	65.0			QL=6 ST=2 TYP=5
	2000	TYKW	29	PBI	0720.0		60.0D	24.0	16.0D		
	1415	LEAR	47	GB	0720.3	0737.5	23.0	490.0			QL=6 ST=2 TYP=5
	1000	TYKW	47	GB	0720.5	0750.3	60.0	650.0	210.0		
	810	KRAK	45	C	0720.8	0735.2	50.0	230.0	99.0		
	810	KRAK			0720.8	0748.4		210.0			
	950	GORK	49	GB	0721.0	0736.9	58.5	4240.0			
	950	GORK		GB	0721.0	0749.8		616.0			
	430	KRAK	41	F	0801.0	0804.6	19.0	35.0			
	2840	PEKG	1	S	0803.0	0803.5	2.0	20.4	.3		
	810	KRAK	8	S	0816.4	0816.5	.3	53.0			
	1470	POTS	46	C	0820.0	0836.0	50.0	56.0			
	9500	POTS	23	GRF	0830.0	0851.7	58.0				
	6100	KISV	21	GRF	0831.0	0835.9	7.0	17.0			
	810	KRAK	2	S/F	0833.7	0835.3	3.2	34.0	5.0		
	9395	PEKG	20	GRF	0835.0	0836.0	10.0	8.3	1.8		
	9100	GORK	1	S	0835.5	0835.9	.7	23.0	12.0		
	930	BORD	46	C	0848.0	0850.0	3.4	86.0	5.0		
	950	GORK	4	S/F	0848.0	0850.6	3.5	38.0			
	810	KRAK	40	F	0848.5	0850.6	5.2	64.0			
	430	KRAK	42	SER	0854.3	0855.0	102.0	300.0			
	430	KRAK			0854.3	0942.2		230.0			
	430	KRAK			0854.3	1011.9		580.0D			
	430	KRAK			0854.3	1035.4		220.0			
	610	LEAR	47	GB	0946.6	0946.6	100.0	80.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	0946.6	0946.8	100.0	44.0			QL=6 ST=2 TYP=3
	650	GORK	4	S/F	1033.2	1033.7	1.0D	26.0			
	810	KRAK	8	S	1033.7	1034.0	.4	13.0			
	6100	KISV	45	C	1108.5	1109.2	3.0	7.0			
	6100	KISV			1108.5	1109.7		6.0			
	1470	POTS	3	S	1109.0	1109.0	1.5	8.0			
	9100	GORK	2	S/F	1109.0	1109.8	1.3	10.0	5.0		
	810	KRAK	8	S	1115.0	1115.5	.8	15.0			
	810	KRAK	2	S/F	1119.6	1120.2	1.8	44.0	11.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
30	430	KRAK	8	S	1119.8	1120.3	1.0	250.0			
	650	GORK	4	S/F	1120.0	1120.6U	1.4	14.0D			
	808	ONDR	2	S/F	1120.1	1120.8	9.8	22.0	6.0		
	536	ONDR	2	S/F	1120.2	1120.8	1.7	1.6			
	610	SGMR	47	GB	1120.3	1120.5	1.0	88.0			QL=6 ST=2 TYP=5
	410	SGMR	47	GB	1120.3	1120.8	1.0	100.0			QL=6 ST=2 TYP=5
	9100	GORK	1	S	1120.3	1120.9	1.2	18.0	9.0		
	6100	KISV	4	S/F	1120.3	1120.9	1.5	11.0			
	4995	SGMR	4	S/F	1120.6	1120.8	20.0	20.0			QL=6 ST=2 TYP=3
	536	ONDR	7	C	1140.0	1143.9	6.0	62.0	10.0		
	430	KRAK	46	C	1140.0	1144.6	8.2	580.0D	320.0		
	430	KRAK			1140.0	1146.2		580.0D			
	410	SGMR	47	GB	1141.0	1143.3	5.0	470.0			QL=6 ST=2 TYP=5
	1470	POTS	4	S/F	1142.0	1143.7	8.0	61.0			
	650	GORK	4	S/F	1142.0	1144.0	3.5	4.0			
	950	GORK	4	S/F	1142.0	1144.1	3.3	41.0			
	930	BORD	46	C	1142.0	1144.2	4.0	40.0	6.0		
	808	ONDR	2	S/F	1142.0	1144.3	6.0	31.0	8.0		
	610	SGMR	47	GB	1142.1	1144.0	2.0	70.0			QL=6 ST=2 TYP=5
	9400	HUAN	3	S	1142.4	1143.7	2.9	36.3	16.6		R
	810	KRAK	2	S/F	1142.5	1144.3	1.8	24.0	7.0		
	9500	POTS	29	PBI	1143.0	1143.8	27.0	34.0			
	6100	KISV	46	C	1143.0	1144.0	3.0	24.0			
	15400	SGMR	47	GB	1143.1	1144.0	1.0	75.0			QL=6 ST=2 TYP=5
	2695	SGMR	8	S	1143.1	1144.0	1.0	15.0			QL=6 ST=2 TYP=3
	4995	SGMR	8	S	1143.1	1144.0	1.0	30.0			QL=6 ST=2 TYP=3
	1415	SGMR	47	GB	1143.1	1144.0	1.0	85.0			QL=6 ST=2 TYP=5
	8800	SGMR	8	S	1143.1	1144.0	1.0	45.0			QL=6 ST=2 TYP=3
	9100	GORK	3	S	1143.2	1143.9	1.9	38.0	19.0		
	2950	GORK	4	S/F	1143.3	1143.9	1.1	28.0			
	3000	POTS	4	S/F	1143.4	1143.8	1.6	32.0			
	15000	KISV	46	C	1143.4	1144.0	2.0	27.0			
	2800	OTTA	4	S/F	1143.5	1144.0	1.5	29.0	14.0		
	1415	ATHN	47	GB	1143.8	1144.3	2.0	63.0			QL=6 ST=2 TYP=5
	2695	ATHN	8	S	1143.8	1144.6	2.0	33.0			QL=6 ST=2 TYP=3
	4995	ATHN	8	S	1143.8	1144.6	2.0	30.0			QL=6 ST=2 TYP=3
	8800	ATHN	47	GB	1144.0	1144.6	1.0	61.0			QL=6 ST=2 TYP=5
	2650	DWIN	2	S/F	1145.0U		1.0U	70.0	30.0		
	9400	HUAN	29	PBI	1145.3	1145.3	23.8	12.7	5.2		0
	430	KRAK	42	SER	1156.3	1203.0	63.0	46.0			
	234	POTS	4	S/F	1309.6	1309.8	.4	340.0	15.0		
	9400	HUAN	2	S/F	1402.3	1403.4	4.9	14.5	5.4		0
	9500	POTS	3	S	1402.5	1403.5	2.0	15.0			
	3000	POTS	23	GRF	1417.0	1421.5	33.0U	23.0			
	2800	OTTA	21	GRF	1417.0	1424.0	70.0	13.2	6.4		
	9500	POTS	23	GRF	1417.5	1419.0	33.0	33.0			
	9400	HUAN	4	S/F	1417.8	1421.1	11.2	38.1	26.5		R
	930	BORD	42	SER	1417.8	1421.5	9.6	44.0	3.0		
	1470	POTS	23	GRF	1417.9	1422.0	5.6	9.0			
	4995	SGMR	4	S/F	1418.3	1421.6	10.0	43.0			QL=6 ST=2 TYP=3
	15400	SGMR	4	S/F	1418.5	1421.3	10.0	40.0			QL=6 ST=2 TYP=3
	8800	SGMR	8	S	1419.6	1421.1	2.0	28.0			QL=6 ST=2 TYP=3
	2650	DWIN	2	S/F	1420.0U		5.0U	20.0	10.0		
	2800	OTTA	3	S	1420.8	1422.0	3.0	16.8	8.4		
	2695	SGMR	4	S/F	1421.0	1422.1	3.0	29.0			QL=6 ST=2 TYP=3
	9400	HUAN	29	PBI	1429.0	1429.0	32.6	16.3	8.3		R
	930	BORD	46	C	1505.0	1505.5	1.7	137.0	7.0		
	2800	OTTA	4	S/F	1505.0	1505.5	2.5	12.0	4.6		
	245	SGMR	4	S/F	1505.1	1505.3	586.4	119.0			QL=6 ST=2 TYP=3
	610	SGMR	47	GB	1505.3	1505.5	20.0	70.0			QL=6 ST=2 TYP=5
	410	SGMR	4	S/F	1505.3	1505.6	50.0	26.0			QL=6 ST=2 TYP=3
	1415	SGMR	47	GB	1505.3	1506.1	1.0	100.0			QL=6 ST=2 TYP=5
	9400	HUAN	20	GRF	1547.2	1602.0	36.9	7.2	5.3		0
	2800	OTTA	21	GRF	1600.0	1605.0	30.0	2.8	2.0		
	2800	OTTA	1	S	1601.9	1602.0	1.0	2.4	1.2		
	2800	OTTA	21	GRF	1640.0	1652.0	40.0	3.2	1.6		
	9400	HUAN	3	S	1641.7	1643.0	3.4	25.4	10.9		R
	8800	SGMR	8	S	1642.8	1643.1	1.0	29.0			QL=6 ST=2 TYP=3
	4995	SGMR	4	S/F	1643.0	1643.1	100.0	17.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	1643.0	1643.3	1.2	2.0	1.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
30	9400	HUAN	29	PBI	1645.1	1645.1	16.5	7.2	5.3		0
	2800	OTTA	8	S	1736.8	1736.9	.5	4.0			
	930	BORD	46	C	1747.0	1747.6	2.0	224.0	12.0		
	410	SGMR	4	S/F	1747.1	1747.5	.4D	42.0			QL=6 ST=2 TYP=3
	1415	PALE	47	GB	1747.1	1747.8	1.0	169.0			QL=6 ST=2 TYP=5
	1415	SGMR	47	GB	1747.1	1747.8	1.0	180.0			QL=6 ST=2 TYP=5
	610	PALE	8	S	1747.1	1748.1	1.0	48.0			QL=6 ST=2 TYP=3
	245	SGMR	47	GB	1747.1	1748.1	1.0	410.0			QL=6 ST=3 TYP=5
	245	PALE	49	GB	1747.1	1748.1	1.0	570.0			QL=6 ST=2 TYP=6
	610	SGMR	47	GB	1747.1	1748.1	1.0	58.0			QL=6 ST=2 TYP=5
	2800	OTTA	2	S/F	1747.2	1748.1	1.5	6.0	2.6		
	930	BORD	41	F	1752.0	1752.9	1.0	24.0	2.0		
	2800	OTTA	1	S	1756.8	1757.3	1.5	2.4	1.0		
	610	SGMR	8	S	1916.1	1916.5	1.0	28.0			QL=6 ST=2 TYP=3
	245	SGMR	8	S	1916.3	1916.8	1.0	20.0			QL=6 ST=2 TYP=3
	410	SGMR	4	S/F	1916.6	1916.8	.2D	39.0			QL=6 ST=2 TYP=3
	15400	SGMR	8	S	2001.6	2001.8	1.0	43.0			QL=6 ST=2 TYP=3
	610	SGMR	4	S/F	2010.5	2010.6	10.0	34.0			QL=6 ST=2 TYP=3
	610	PALE	4	S/F	2010.5	2010.6	10.0	36.0			QL=6 ST=2 TYP=3
	410	SGMR	47	GB	2021.1	2022.8	2.0	180.0			QL=6 ST=2 TYP=5
	2800	OTTA	4	S/F	2022.0	2023.0	1.7	12.8	2.2		
	410	PALE	47	GB	2022.6	2022.8	1.0	110.0			QL=6 ST=2 TYP=5
	610	SGMR	47	GB	2023.0	2023.1	100.0	51.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	2023.1	2023.3	10.0	74.0			QL=6 ST=2 TYP=5
	9400	HUAN	21	GRF	2032.9	2100.5	60.1	12.7	3.1		R
	500	HIRA	45	C	2056.0	2056.3	1.0	130.0	25.0		SL
	610	PALE	49	GB	2056.3	2058.8	3.0	2100.0			QL=6 ST=2 TYP=6
	610	SGMR	49	GB	2056.3	2058.8	3.0	2100.0			QL=6 ST=2 TYP=6
	1000	TYKW	45	C	2056.4	2057.0	1.0	22.0U	5.0U		
	2800	OTTA	1A	S	2056.5	2057.0	10.0	3.2	1.6		
	8800	PALE	47	GB	2057.8	2058.8	4.0	139.0			QL=6 ST=2 TYP=5
	9400	HUAN	3	S	2057.9	2058.7	2.1	99.8	31.6		R
	1000	TYKW	45	C	2058.0	2058.9	1.5	87.0U	1.0U		
	500	HIRA	45	C	2058.2	2058.7	2.0	1400.0	200.0		SL
	4995	PALE	47	GB	2058.5	2058.8	2.0	83.0			QL=6 ST=2 TYP=5
	4995	SGMR	47	GB	2058.6	2058.8	1.0	72.0			QL=6 ST=2 TYP=5
	8800	SGMR	47	GB	2058.6	2058.8	1.0	90.0			QL=6 ST=2 TYP=5
	1415	SGMR	8	S	2058.6	2058.8	1.0	30.0			QL=6 ST=2 TYP=3
	1415	PALE	4	S/F	2058.6	2058.8	10.0	24.0			QL=6 ST=2 TYP=3
	410	PALE	47	GB	2058.6	2059.3	1.0	189.0			QL=6 ST=2 TYP=5
	2800	OTTA	3	S	2058.7	2059.4	3.0	13.6	6.0		
	2695	SGMR	8	S	2058.8	2059.1	1.0	18.0			QL=6 ST=2 TYP=3
	2695	PALE	8	S	2058.8	2059.1	1.0	20.0			QL=6 ST=2 TYP=3
	245	SGMR	8	S	2058.8	2059.1	2.0	41.0			QL=6 ST=2 TYP=3
	410	SGMR	47	GB	2058.8	2059.3	1.0	340.0			QL=6 ST=2 TYP=5
	610	SGMR	8	S	2125.8	2126.0	1.0	81.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	2250.0	2251.8	3.0	10.0	2.5		
	500	HIRA	46	C	2250.0	2252.0	4.0	200.0	30.0		SL
	2000	TYKW	5	S	2250.3	2250.7	1.0	2.5	1.0		
	3750	TYKW	45	C	2250.3	2252.3	4.5	6.0	1.5		RAIN
	610	LEAR	47	GB	2252.1	2252.1	1000.0	60.0			QL=6 ST=2 TYP=5
	500	HIRA	42	SER	2317.0	0041.7	105.0	1100.0			SL
	2000	TYKW	20	GRF	2335.0	2338.0	60.0	3.0	1.5		
	4995	MANI	3	S	2335.0	2338.0	7.5	70.9	23.6		
	8800	MANI	3	S	2335.0	2338.7	8.0	62.1	20.7		
	410	PALE	20	GRF	2335.3	2335.3	10.0	47.0			QL=6 ST=2 TYP=2
	2695	PENT	1	S	2335.5	2337.0	3.0	7.0	3.5		
	3750	TYKW	45	C	2336.0	2337.6	3.0	22.0	11.0		
	2695	MANI	3	S	2336.3	2338.0	4.2	21.4	7.1		
	8800	PALE	8	S	2337.0	2337.1	1.0	30.0			QL=6 ST=2 TYP=3
	4995	PALE	8	S	2337.0	2337.1	1.0	22.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	2337.0	2338.0	3.0	43.0			QL=6 ST=2 TYP=3
	8800	LEAR	47	GB	2337.0	2338.0	3.0	50.0			QL=6 ST=2 TYP=5
	15400	LEAR	4	S/F	2337.1	2338.1	3.0	27.0			QL=6 ST=2 TYP=3
	3750	TYKW	29	PBI	2339.0		55.0	7.0	4.0		
31	33	UPIC	44	NS	0530.0E		458.3D				
	29	UPIC	44	NS	0530.0E	1118.0D	458.0D				
	260	ONDR	44	NS	0603.0E	1328.0U	485.0D	44.0U			
	536	ONDR	43	NS	0846.0	0856.0U	71.0D	6.0U			

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31	536	ONDR	43	NS	1121.0		99.0D				
	245	LEAR	43	NS	2248.0	2344.6	680.0D	139.0			QL=6 ST=2 TYP=1
	1000	TYKW	45	C	0021.0	0022.8	3.0	3.0	1.0		
	410	PALE	47	GB	0029.1	0033.1	4.0D	160.0			QL=6 ST=2 TYP=5
	610	PALE	4	S/F	0029.3	0033.8	5.0	36.0			QL=6 ST=2 TYP=3
	1415	MANI	4	S/F	0037.8	0040.3	5.2	152.2	50.7		
	4995	MANI	3	S	0040.9	0042.2	4.1	183.5	61.2		
	606	MANI	47	GB	0041.0	0042.0	18.0	1042.8	347.6		
	2000	TYKW	5	S	0041.0	0042.0	3.0	29.0	3.5		
	3750	TYKW	5	S	0041.0	0042.0	7.0	47.0	8.0		
	9400	TYKW	45	C	0041.0	0042.1	4.0	470.0	80.0		
	2840	PEKG	5	S	0041.0	0042.1	3.0	25.0	5.2		
	9395	PEKG	3	S	0041.0	0042.2	13.0	322.0	10.0		
	610	PALE	49	GB	0041.3	0041.8	1.0	2000.0			QL=6 ST=2 TYP=6
	1000	TYKW	45	C	0041.3	0042.0	1.5	92.0	12.0		
	610	LEAR	49	GB	0041.3	0042.0	1.0	2699.0			QL=6 ST=2 TYP=6
	8800	LEAR	47	GB	0041.3	0042.1	4.0	490.0			QL=6 ST=2 TYP=5
	2695	PENT	3	S	0041.5	0042.0	2.5	15.2	6.0		
	2695	MANI	3	S	0041.5	0042.2	1.8	42.7	14.2		
	410	PALE	47	GB	0041.6	0041.8	1.0	200.0			QL=6 ST=2 TYP=5
	4995	PALE	47	GB	0041.6	0041.8	2.0	100.0			QL=6 ST=2 TYP=5
	15400	PALE	47	GB	0041.6	0042.0	2.0	420.0			QL=6 ST=2 TYP=5
	4995	LEAR	47	GB	0041.6	0042.0	2.0	110.0			QL=6 ST=2 TYP=5
	8800	PALE	47	GB	0041.6	0042.0	2.0	440.0			QL=6 ST=2 TYP=5
	8800	MANI	47	GB	0041.6	0042.4	4.4	562.6	187.5		
	17000	NOBE	3	S	0041.7	0042.0	3.0	378.0			R
	15400	LEAR	47	GB	0041.8	0042.0	2.0	470.0			QL=6 ST=2 TYP=5
	1415	LEAR	47	GB	0041.8	0042.0	1.0	62.0			QL=6 ST=2 TYP=5
	35000	NAGO	5	S	0042.0	0042.0	2.0	72.0			
	9400	TYKW	29	PBI	0045.0		15.0	12.0	4.0		
	410	PALE	49	GB	0045.6	0046.0	12.0	570.0			QL=6 ST=2 TYP=6
	410	LEAR	49	GB	0051.6	0055.0	5.0	1399.0			QL=6 ST=2 TYP=6
	1000	TYKW	45	C	0052.0	0052.5	2.0	5.0	.7		
	610	LEAR	47	GB	0052.1	0053.0	2.0	480.0			QL=6 ST=2 TYP=5
	610	PALE	47	GB	0052.8	0052.8	1.0	330.0			QL=6 ST=2 TYP=5
	1000	TYKW	5	S	0054.0	0057.0	10.0	2.0	1.0		
	3750	TYKW	28	PRE	0112.0	0124.0	12.0	3.0	1.5		
	208	VORO	42	SER	0113.0	0131.0	44.0	87.0			
	2000	TYKW	28	PRE	0114.0	0116.0	9.0	3.0	1.5		
	9395	PEKG			0120.0	0126.3		17.2	2.7		
	9395	PEKG	45	C	0120.0	0134.0	37.0	24.0			
	9400	TYKW	45	C	0121.0	0130.7	30.0	45.0	13.0U		INTERFERENCE
	2000	TYKW	45	C	0123.0	0133.8	20.0	10.0	5.0		
	2840	PEKG			0124.0	0126.3		26.1			
	3750	TYKW	45	C	0124.0	0133.8	14.0	26.0	10.0		
	2840	PEKG	45	C	0124.0	0133.8	15.0	47.2	8.8		
	245	PALE	47	GB	0131.0	0131.1	10.0	460.0			QL=6 ST=2 TYP=5
	500	HIRA	45	C	0133.0	0133.4	2.0	260.0	30.0		SL
	2695	PENT	3	S	0133.0	0133.8	1.6	10.4	5.2		
	1000	TYKW	45	C	0133.0	0134.3	2.0	4.0	2.0		
	610	PALE	47	GB	0133.1	0133.5	3.0	200.0			QL=6 ST=2 TYP=5
	4995	PALE	8	S	0133.8	0134.3	1.0	20.0			QL=6 ST=2 TYP=3
	1000	TYKW	29	PBI	0135.0		15.0	1.0	.5		
	3750	TYKW	29	PBI	0138.0		22.0	8.0	4.0		
	2000	TYKW	30	PBI	0143.0		95.0	3.0	1.5		
	9400	TYKW	30	PBI	0151.0		55.0	6.0	2.0		
	3750	TYKW	5	S	0202.0	0205.0	10.0	10.0	2.0		
	1000	TYKW	45	C	0202.0	0205.6	6.0	10.0	1.0		
	2840	PEKG	5	S	0204.0	0205.0	3.0	28.6	8.9		
	2000	TYKW	5	S	0204.0	0205.0	4.0	4.5	1.5		
	9395	PEKG	1	S	0204.0	0207.1	7.0	5.4	2.3		
	2930	VORO	3	S	0225.0	0228.0	10.0	86.0			
	9400	TYKW	21	GRF	0225.0	0300.0	35.0U	3.0	1.5U		INTERFERENCE
	9400	TYKW	5	S	0227.0	0228.6	12.0	23.0	6.0		
	3750	TYKW	5	S	0227.0	0228.6	7.0	67.0	18.0		
	2840	PEKG	5	S	0227.0	0228.6	6.0	186.0	26.4		
	2000	TYKW	5	S	0227.0	0228.6	5.0	26.0	1.0		
	2695	MANI	3	S	0227.2	0228.6	4.8	64.0	21.0		
	4995	MANI	3	S	0227.2	0228.8	4.8	62.6	20.9		
	8800	MANI	3	S	0227.4	0229.0	4.6	36.4	12.1		

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31	2695	PALE	47	GB	0227.6	0228.5	2.0	67.0			QL=6 ST=2 TYP=5
	4995	PALE	47	GB	0227.6	0228.6	3.0	60.0			QL=6 ST=2 TYP=5
	8800	PALE	4	S/F	0227.8	0228.6	3.0	40.0			QL=6 ST=2 TYP=3
	9395	PEKG	1	S	0228.0	0229.2	8.0	13.0	2.6		
	2000	TYKW	29	PBI	0232.0		10.0	2.0	.7		
	3750	TYKW	29	PBI	0234.0		8.0	3.0	1.5		
	3750	TYKW	5	S	0312.0	0312.4	3.0	20.0	2.5		
	2840	PEKG	1	S	0312.0	0312.5	3.0	13.0	6.1		
	9395	PEKG	5	S	0312.0	0312.6	3.0	24.8	4.4		
	4995	PALE	4	S/F	0312.1	0312.3	30.0	37.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0312.2	0312.5	1.0	28.0	1.0		
	8800	LEAR	4	S/F	0312.3	0312.5	40.0	37.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0312.3	0312.5	20.0	29.0			QL=6 ST=2 TYP=3
	3750	TYKW	21	GRF	0332.0	0357.0	70.0	3.0	1.5		
	9400	TYKW	21	GRF	0332.0	0359.0	75.0	6.0	2.5		
	1000	TYKW	45	C	0339.0	0344.2	25.0	4.0	.7		
	2000	TYKW	45	C	0345.6	0347.2	6.0	11.0	2.0		
	35000	NAGO	20	GRF	0353.0	0400.0	40.0	35.0			
	9400	TYKW	45	C	0408.5	0410.4	27.0	45.0	7.0		
	3750	TYKW	45	C	0409.0	0420.8	20.0	4.0	1.5		
	500	HIRA	45	C	0409.1	0409.2	.5	90.0	40.0		SL
	8800	LEAR	47	GB	0409.8	0410.3	4.0	54.0			QL=6 ST=2 TYP=5
	15400	LEAR	8	S	0410.1	0412.3	2.30	40.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	0420.3	0420.6	1.0	5.0	1.5		
	610	LEAR	47	GB	0420.6	0420.6	20.0	84.0			QL=6 ST=2 TYP=5
	410	LEAR	47	GB	0420.6	0420.8	50.0	71.0			QL=6 ST=2 TYP=5
	100	GORK	4	S/F	0427.0	0427.1	.8	120.00			
	1000	TYKW	5	S	0427.0	0427.3	1.0	3.0	1.0		
	100	GORK			0427.0	0427.5		90.0			
	950	GORK	21	GRF	0427.0	0449.7	144.00	4.0			
	2950	GORK	21	GRF	0452.5E	0554.6	180.00	12.5			
	9100	GORK	23	GRF	0457.0E	0618.0	423.00	46.0			
	9395	PEKG	28	PRE	0511.0E	0529.4	20.00	23.4	10.4		
	1000	TYKW	45	C	0531.0	0531.4	1.0	5.0	.7		
	9395	PEKG	5	S	0531.0	0532.4	5.0	238.0	19.5		
	6100	KISV	4	S/F	0531.0	0533.0	5.0	71.0			
	9400	TYKW	5	S	0531.0	0533.3	5.0	140.0	35.0		
	3750	TYKW	5	S	0531.5	0533.3	7.5	43.0	12.0		
	8800	ATHN	47	GB	0531.6	0533.1	11.0	210.0			QL=6 ST=2 TYP=5
	4995	ATHN	4	S/F	0531.8	0533.1	11.0	69.0			QL=6 ST=2 TYP=3
	8800	LEAR	47	GB	0531.8	0533.3	4.0	270.0			QL=6 ST=2 TYP=5
	15400	LEAR	47	GB	0532.0	0533.3	3.0	200.0			QL=6 ST=2 TYP=5
	2840	PEKG	5	S	0532.0	0533.4	6.0	22.7	3.6		
	2000	TYKW	21	GRF	0532.0	0631.0	85.0	3.0	1.5		
	4995	LEAR	47	GB	0532.1	0533.3	3.0	77.0			QL=6 ST=2 TYP=5
	2950	GORK	3	S	0532.2	0533.3	3.1	23.0			
	2695	MANI	3	S	0532.3	0533.0	1.7	23.7	7.9		
	2695	ATHN	4	S/F	0532.3	0533.1	10.0	19.0			QL=6 ST=2 TYP=3
	9100	GORK	3	S	0532.4	0533.2	2.1	230.0			
	1415	MANI	3	S	0532.5	0533.0	.8	27.5	9.2		
	4995	MANI	3	S	0532.5	0533.2	2.0	78.3	26.1		
	2000	TYKW	5	S	0532.5	0533.3	5.0	14.0	4.0		
	650	GORK	4	S/F	0532.6	0533.0U	.9	30.00			
	950	GORK	4	S/F	0532.6	0533.0	2.3	21.0			
	200	GORK	8	S	0532.6	0534.2	2.0	70.00			
	500	HIRA	46	C	0532.7	0532.9	.1	140.0	80.0		SL
	606	MANI	4	S/F	0532.7	0532.9	.6	46.8	15.6		
	100	GORK	8	S	0532.7	0533.0U	1.4	1500.00			
	1000	TYKW	45	C	0532.7	0533.2	1.5	25.0	5.0		
	8800	MANI	3	S	0532.7	0533.3	2.3	271.4	90.5		
	245	LEAR	47	GB	0532.8	0533.0	2.0	189.0			QL=6 ST=2 TYP=5
	610	LEAR	47	GB	0532.8	0533.1	2.0	239.0			QL=6 ST=2 TYP=5
	1415	LEAR	8	S	0533.0	0533.1	2.0	43.0			QL=6 ST=2 TYP=3
	1415	ATHN	4	S/F	0533.0	0533.1	7.0	30.0			QL=6 ST=2 TYP=3
	17000	NOBE	3	S	0533.0	0533.3	1.5	150.0			0
	410	LEAR	47	GB	0533.0	0533.3	1.0	160.0			QL=6 ST=2 TYP=5
	2695	LEAR	4	S/F	0533.0	0533.3	4.0	21.0			QL=6 ST=2 TYP=3
	35000	NAGO	20	GRF	0533.0	0540.0U	30.0	25.0			
	35000	NAGO	20	GRF	0533.1	0540.0U	30.0	25.0			
	9400	TYKW	30	PBI	0536.0		120.0	17.0	8.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1982

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
31	9395	PEKG	30	PBI	0536.0	0556.0	23.0	38.0	11.0		
	9400	TYKW	5	S	0538.0	0550.0	16.0	5.0	2.0		
	2840	PEKG	29	PBI	0538.0	0554.7	74.0	18.5	3.1		
	3750	TYKW	30	PBI	0539.0		80.0	6.0	4.0		
	650	GORK	41	F	0553.1	0553.5	1.6	19.0			
	650	GORK			0553.1	0554.6		30.0			
	3750	TYKW	5	S	0554.0	0554.6	1.5	5.0	2.0		
	9400	TYKW	5	S	0555.0	0556.6	4.0	6.0	2.0		
	3750	TYKW	20	GRF	0610.0	0637.0	45.0	5.0	2.5		
	9400	TYKW	5	S	0611.0	0611.3	.7	6.0	1.5		
	8800	ATHN	4	S/F	0612.3	0616.0	4.0	31.0			QL=6 ST=2 TYP=3
	9400	TYKW	45	C	0612.5	0616.0	35.5	56.0	11.0		
	6100	KISV	46	C	0613.0	0613.7		8.0			
	6100	KISV			0613.0	0614.4	8.5	9.0			
	9395	PEKG			0613.0	0614.6					
	6100	KISV			0613.0	0616.1		22.0			
	9395	PEKG	45	C	0613.0	0616.1	29.0	42.0	5.3		
	4995	ATHN	4	S/F	0613.1	0616.0	3.0	13.0			QL=6 ST=2 TYP=3
	9100	GORK	45	C	0613.2	0613.8	1.6	23.0			
	9100	GORK			0613.2	0614.5		22.0			
	8800	LEAR	47	GB	0613.6	0616.1	11.0	60.0			QL=6 ST=2 TYP=5
	35000	NAGO	20	GRF	0614.0	0625.0	56.0	40.0			
	17000	NOBE	7	C	0614.1	0616.0	2.2	69.0			0
	15400	LEAR	47	GB	0614.1	0616.0	3.0	80.0			QL=6 ST=2 TYP=5
	17000	NOBE	21	GRF	0614.1	0628.9	24.0	26.0			0
	9100	GORK	3	S	0615.5	0616.0	1.4	44.0			
	9395	PEKG	20	GRF	0628.0	0630.0	30.0	29.8	8.8		
	9400	TYKW	31	ABS	0648.0	0700.0	40.0	-1.0	-.5		
	3100	CRIM	26	FAL	0648.0	0810.0		11.0			
	113	POTS	4	S/F	0700.5	0700.7	.5	140.0	10.0		
	3750	TYKW	5	S	0701.5	0702.2	2.5	5.0	1.5		
	430	KRAK	41	F	0719.8	0722.9	3.5	56.0			
	100	GORK	8	S	0735.0	0735.3U	.9	250.0D			
	650	GORK	4	S/F	0735.1	0735.4	.4	15.0			
	536	ONDR	8	S	0735.2	0735.4	.2	18.0			
	930	BORD	46	C	0750.6	0750.9	.5	56.0	3.0		
	2950	GORK	20	GRF	0758.7	0803.0	9.0	2.3			
	113	POTS	4	S/F	0809.1	0809.2	1.1	150.0	10.0		III
	127	TORN	7	C	0809.1	0809.5	1.5	160.0	80.0		
	9500	POTS	29	PBI	0833.0	0834.4	22.0	43.0			
	8800	ATHN	8	S	0833.3	0834.5	2.0	27.0			QL=6 ST=2 TYP=3
	9100	GORK	45	C	0833.4	0833.8	1.5	23.0			
	19600	BERN	45	C	0833.4	0834.4	5.5	110.0			
	9100	GORK			0833.4	0834.4		38.0			
	11800	BERN	45	C	0833.4	0834.4	5.5	108.0			
	8400	BERN	4	S/F	0833.4	0834.4	5.5	36.0			
	15400	LEAR	47	GB	0833.6	0834.5	2.0	130.0			QL=6 ST=2 TYP=5
	8800	LEAR	8	S	0833.6	0834.5	2.0	42.0			QL=6 ST=2 TYP=3
	100	GORK	42	SER	0834.3	0834.4	39.0	120.0			
	100	GORK			0834.3	0858.2		760.0			
	100	GORK			0834.3	0916.9		3800.0			
	2950	GORK	21	GRF	0844.0	0900.0	58.4	5.7			
	200	GORK	4	S/F	0856.8	0858.0	2.9	60.0D			
	113	POTS	42	SER	0857.0	0913.5	17.0	1100.0	10.0		III
	127	TORN	7	C	0857.1	0858.5	2.0	120.0	30.0		
	3000	POTS	4	S/F	0905.8	0906.4	1.7	13.0			
	9500	POTS	20	GRF	0907.0	0913.5	28.0	13.0			
	9100	GORK	1	S	0910.5	0910.6	.5	8.0	4.0		
	2950	GORK	1	S	0912.2	0913.6	1.4U	3.4			
	430	KRAK	2	S/F	0912.7	0913.4	1.5	72.0	8.0		
	3000	IZMI	41	F	0913.0	0913.4	.8	1500.0			
	234	POTS	4	S/F	0913.3	0913.5	.4	480.0	90.0		III
	650	GORK	40	F	0913.3	0913.6	1.7	8.5			
	200	GORK	4	S/F	0913.3	0913.9	1.9	60.0			
	650	GORK			0913.3	0914.8		6.5			
	9100	GORK	1	S	0913.4	0913.6	.4	13.0	6.0		
	430	KRAK	45	C	1008.0E	1010.0U	8.0D	72.0	28.0U		
	2950	GORK	20	GRF	1009.0	1017.0	17.5U	8.0			
	430	KRAK	42	SER	1028.0	1034.1	57.0	270.0			
	430	KRAK			1028.0	1117.0		50.0			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1982

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
31	650	GORK	41	F	1029.5	1030.2	4.3	3.0			
	650	GORK			1029.5	1032.6		27.0			
	810	KRAK	8	S	1034.0	1034.1	.3	81.0			
	810	KRAK	1	S	1034.0	1116.7	42.7U	16.0			
	930	BORD	41	F	1034.6	1034.7	.3	27.0	2.0		
	950	GORK	2	S/F	1034.6	1034.7	.7	5.0			
	2950	GORK	20	GRF	1045.0	1051.0	23.0	2.8			
	200	GORK	8	S	1045.7	1045.9	.7	60.0			
	2950	GORK	21	GRF	1115.0	1151.0	45.0D	5.8			
	200	GORK	4	S/F	1115.4	1117.5	3.5	70.0			
	3100	CRIM	1	S	1116.0	1117.0	2.0	14.0	4.0		
	3000	POTS	3	S	1116.2	1117.4	3.8	17.0			
	950	GORK	4	S/F	1116.7	1117.5	1.5	23.0			
	930	BORD	46	C	1116.8	1117.5	1.6	29.0	4.0		
	100	GORK	46	C	1116.9	1117.2	1.5	230.0			
	100	GORK			1116.9	1117.7		320.0			
	1470	POTS	4	S/F	1117.0	1117.1	1.5	31.0			
	650	GORK	4	S/F	1117.0	1117.2	1.0	20.0	6.5		
	3000	IZMI	5	S	1117.0	1117.2	.8	280.0	200.0		
	2950	GORK	3	S	1117.0	1120.3	3.3U	12.6			
	808	ONDR	1	S	1117.3	1117.9	12.8	18.0	6.0		
	234	POTS	4	S/F	1117.5	1117.6	.5	240.0	50.0		III
	9500	POTS	3	S	1127.5	1128.0	2.0	20.0			
	9100	GORK	3	S	1127.7	1128.0	1.2	30.0			
	810	KRAK	2	S/F	1137.5	1138.0	1.5	17.0	8.0		
	127	TORN	4	S/F	1217.0	1217.6	1.5	120.0	60.0		
	2800	OTTA	21	GRF	1230.0	1350.0	110.0	6.4			
	610	SGMR	8	S	1243.5	1244.3	1.0	16.0			QL=6 ST=2 TYP=3
	410	SGMR	47	GB	1244.1	1244.3	10.0	110.0			QL=6 ST=2 TYP=5
	430	KRAK	8	S	1244.2	1244.3	.3	73.0			
	430	KRAK	8	S	1250.3	1250.3	.2	17.0			
	2800	OTTA	1	S	1306.0	1306.5	1.0	2.8	1.4		
	410	SGMR	4	S/F	1313.6	1313.8	100.0	19.0			QL=6 ST=2 TYP=3
	2800	OTTA	40	F	1320.0	1320.8	2.0	5.2			
	1470	POTS	40	F	1320.5	1323.0	4.0	11.0			
	3000	POTS	21	GRF	1338.0	1357.5	37.0	11.0			
	9500	POTS	20	GRF	1342.5	1358.0	43.0	8.0			
	9400	HUAN	20	GRF	1343.6	1359.6	35.6	8.5	3.4		0
	410	SGMR	8	S	1348.8	1349.1	1.0	27.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	1353.0	1354.5	3.5	3.5	1.6		
	2800	OTTA	1	S	1357.5	1357.9	1.0	4.0	1.9		
	410	SGMR	20	GRF	1421.8	1425.6	24.0	57.0			QL=6 ST=2 TYP=2
	2800	OTTA	21	GRF	1435.0	1500.0	65.0	4.8	2.4		
	2800	OTTA	1	S	1453.5	1454.0	1.0	2.0	1.0		
	930	BORD	8	S	1507.8	1507.8	.1	17.0	1.0		
	930	BORD	8	S	1540.5	1540.5	.1	17.0	1.0		
	930	BORD	41	F	1553.7	1553.8	.3	14.0	2.0		
	2800	OTTA	8	S	1553.7	1553.9	.6	2.0	1.0		
	2800	OTTA	1	S	1714.0	1714.3	1.0	4.8	1.8		
	245	SGMR	8	S	1937.1	1937.6	1.0	21.0			QL=6 ST=2 TYP=3
	245	SGMR	49	GB	2146.6	2147.6	1.0	690.0			QL=6 ST=3 TYP=6
	9400	TYKW	45	C	2221.0	2225.1	9.0	260.0	75.0		
	9400	HUAN	45	C	2221.3	2225.0	6.2	213.4	76.5		R
	15400	SGMR	47	GB	2222.8	2225.0	7.0	280.0			QL=4 ST=2 TYP=5
	4995	SGMR	47	GB	2223.0	2225.0	6.0	139.0			QL=4 ST=2 TYP=5
	3750	TYKW	5	S	2223.0	2225.1	7.0	124.0	2.5		
	2800	OTTA	3	S	2223.0	2225.1	6.0	90.0	22.0		
	15400	SGMR	47	GB	2223.0	2225.1	6.0	280.0			QL=4 ST=2 TYP=5
	8800	SGMR	47	GB	2223.0	2225.1	6.0	210.0			QL=4 ST=2 TYP=5
	2695	SGMR	47	GB	2223.0	2225.1	6.0	93.0			QL=4 ST=2 TYP=5
	2000	TYKW	5	S	2223.0	2225.1	6.0	60.0	16.0		
	1415	SGMR	4	S/F	2223.0	2225.6	6.0	28.0			QL=4 ST=2 TYP=3
	35000	NAGO	5	S	2224.0	2224.0	4.0	165.0			
	1000	TYKW	45	C	2224.4	2224.7	3.5	62.0	7.0		
	606	MANI	4	S/F	2224.8	2225.3	.7	56.0	18.7		
	4995	MANI	4	S/F	2225.2	2225.3	1.3	90.8	30.3		
	2695	MANI	4	S/F	2225.2	2225.3	1.3	63.7	21.2		
	8800	MANI	4	S/F	2225.2	2225.5	1.3	214.0	71.3		
	9400	HUAN	29	PBI	2227.5	2227.5	10.0	34.1	12.6		R
	35000	NAGO	29	PBI	2228.0	2228.0	133.0	40.0			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1982

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
31	2000	TYKW	30	PBI	2229.0		250.0	4.0	2.0		
	3750	TYKW	30	PBI	2230.0		250.0	9.0	4.0		
	9400	TYKW	29	PBI	2230.0		40.0	26.0	10.0		
	3750	TYKW	21	GRF	2315.0	2340.0	175.0	8.0	3.0		
	9400	TYKW	21	GRF	2316.0	2340.0	110.0	8.0	3.0		
	9400	TYKW	45	C	2316.5	2316.8	1.5	27.0	8.0		
	8800	LEAR	8	S	2316.6	2316.8	1.0	22.0			QL=6 ST=2 TYP=3
	15400	PALE	47	GB	2316.6	2316.8	1.0	76.0			QL=6 ST=2 TYP=5
	8800	PALE	4	S/F	2316.6	2316.8	30.0	23.0			QL=6 ST=2 TYP=3
	17000	NOBE	7	C	2316.6	2317.2	1.0	75.0			R
	15400	LEAR	8	S	2316.8	2317.1	1.0	42.0			QL=6 ST=2 TYP=3
	9400	TYKW	29	PBI	2318.0		10.0	6.0	2.0		
	2000	TYKW	20	GRF	2320.0	2340.0	160.0	5.0	2.5		
	1000	TYKW	45	C	2323.5	2324.1	1.5	11.0	2.0		
	1000	TYKW	21	GRF	2330.0	2355.0	165.0	2.0	1.0		
	610	PALE	4	S/F	2335.6	2338.1	4.0	28.0			QL=6 ST=2 TYP=3
	610	LEAR	20	GRF	2335.6	2338.3	5.0	34.0			QL=6 ST=2 TYP=2
	1000	TYKW	45	C	2336.0	2339.0	6.0	5.0	1.5		

Reports are received routinely from the following observatories:

ATHN = Athens
BERN = Berne
BORD = Bordeaux
CRIM = Crimea
DWIN = Dwingeloo
GORK = Gorky
HARS = Harestua
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = IZMIRAN
KISV = Kislovodsk
KRAK = Krakow
LEAR = Learmonth
MANI = Manila
NAGO = Nagoya
NOBE = Nobeyama
ONDR = Ondrejov
OTTA = Ottawa
PALE = Palehua
PEKG = Peking
POTS = Potsdam
SOAP = Sao Paulo
SGMR = Sagmore Hill
SYDN = Sydney
TORN = Torun
TYKW = Toyokawa
YUNN = Yunnan
TRST = Triste
UPIC = Upice
VORO = Voroshilov

Explanation of Type Code:

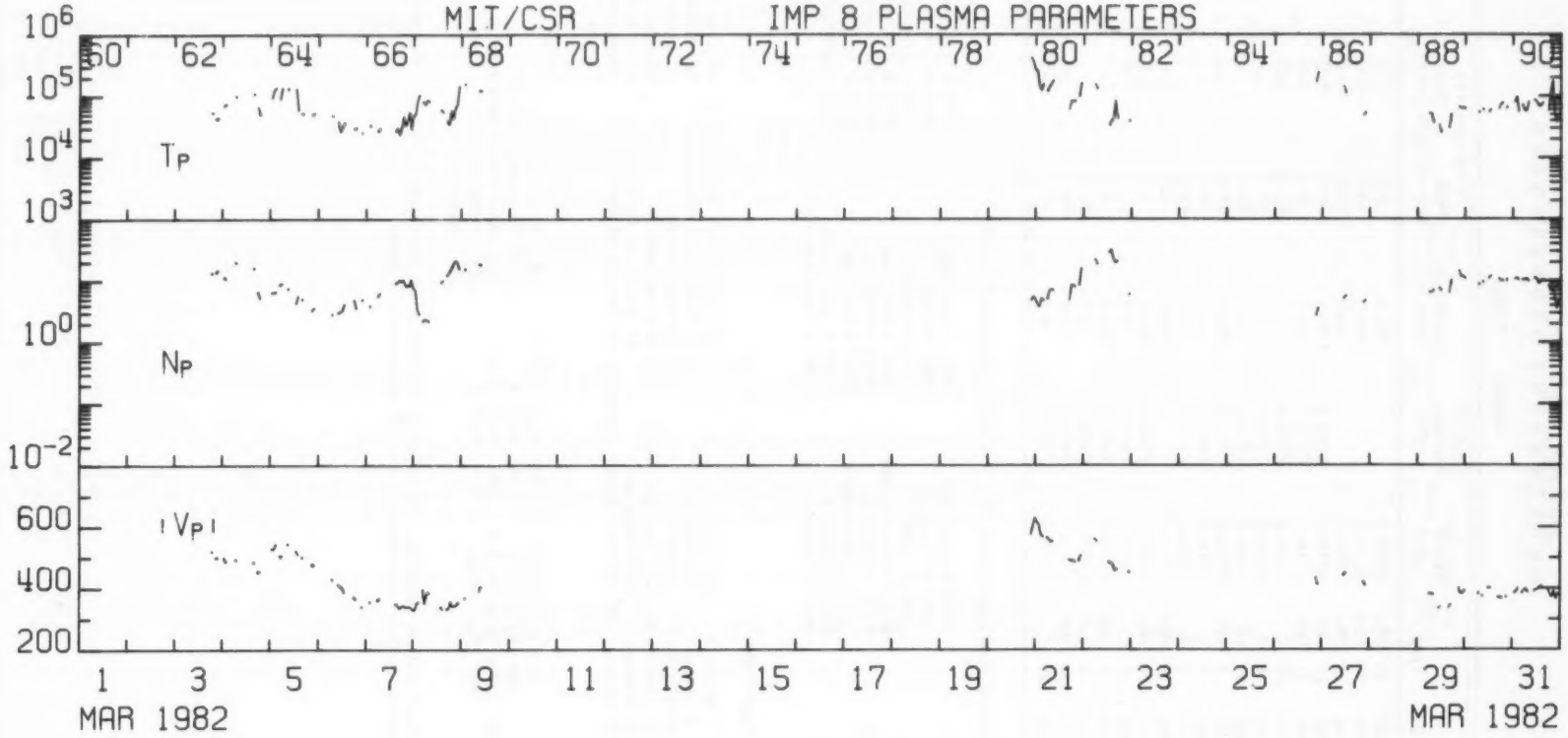
1 Simple 1
2 Simple 1F
3 Simple 2
4 Simple 2F
5 Simple
6 Minor
7 Minor +
8 Spike
20 Simple 3
21 Simple 3A
22 Simple 3F
23 Simple 3AF
24 Rise
25 Rise A
26 Fall
27 Rise and Fall
28 Precursor
29 Post Burst Increase
30 Post Burst Increase A
31 Post Burst Decrease
33 Absorption
40 Fluctuation
41 Group of Bursts
42 Series of Bursts
43 Onset of Noise Storm
44 Noise Storm in Progress
45 Complex
46 Complex F
47 Great Burst
48 Major
49 Major +

1A Simple 1A
3A Simple 2A
21A Simple 3A GRF
2A Simple 1AF
4A Simple 2AF
240 Rise only
240F Rise only F
24P Post Rise
24PF Post Rise F
16A Fall A
260 Fall Only
26F Fall F
27F Rise and Fall F
27AF Rise and Fall AF
31A Post Burst Decrease A
32A Absorption A
46F Complex F

Under the "Remarks" column heading, RIF stands for Relative Increase in Flux. The expression "RIF 469.2", for example, denotes a flux increase of 469.2% above background.

IMP 8 SOLAR WIND PLASMA

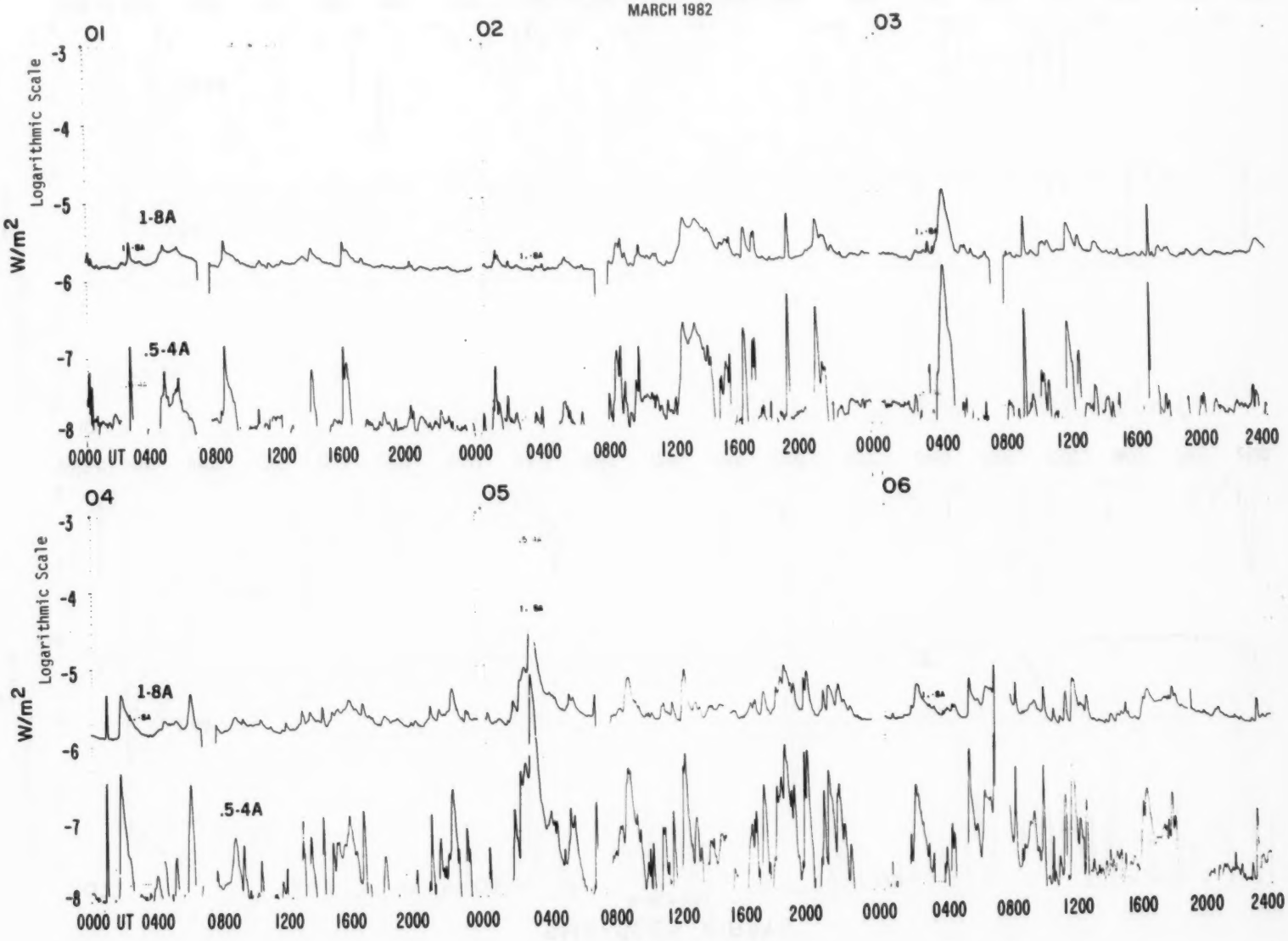
MARCH 1982



SMS-GOES X-RAYS

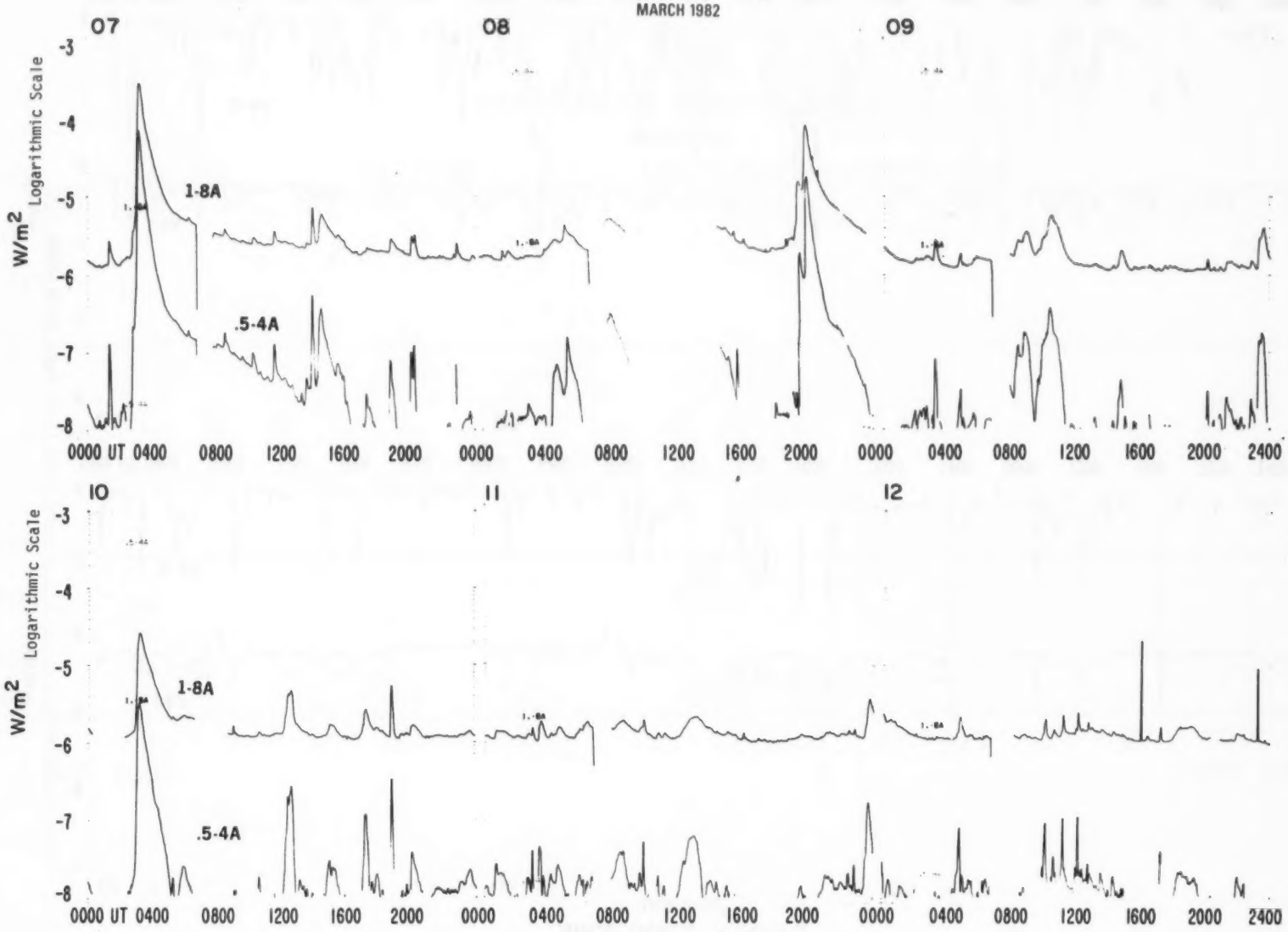
SMS-GOES X-RAYS

MARCH 1982

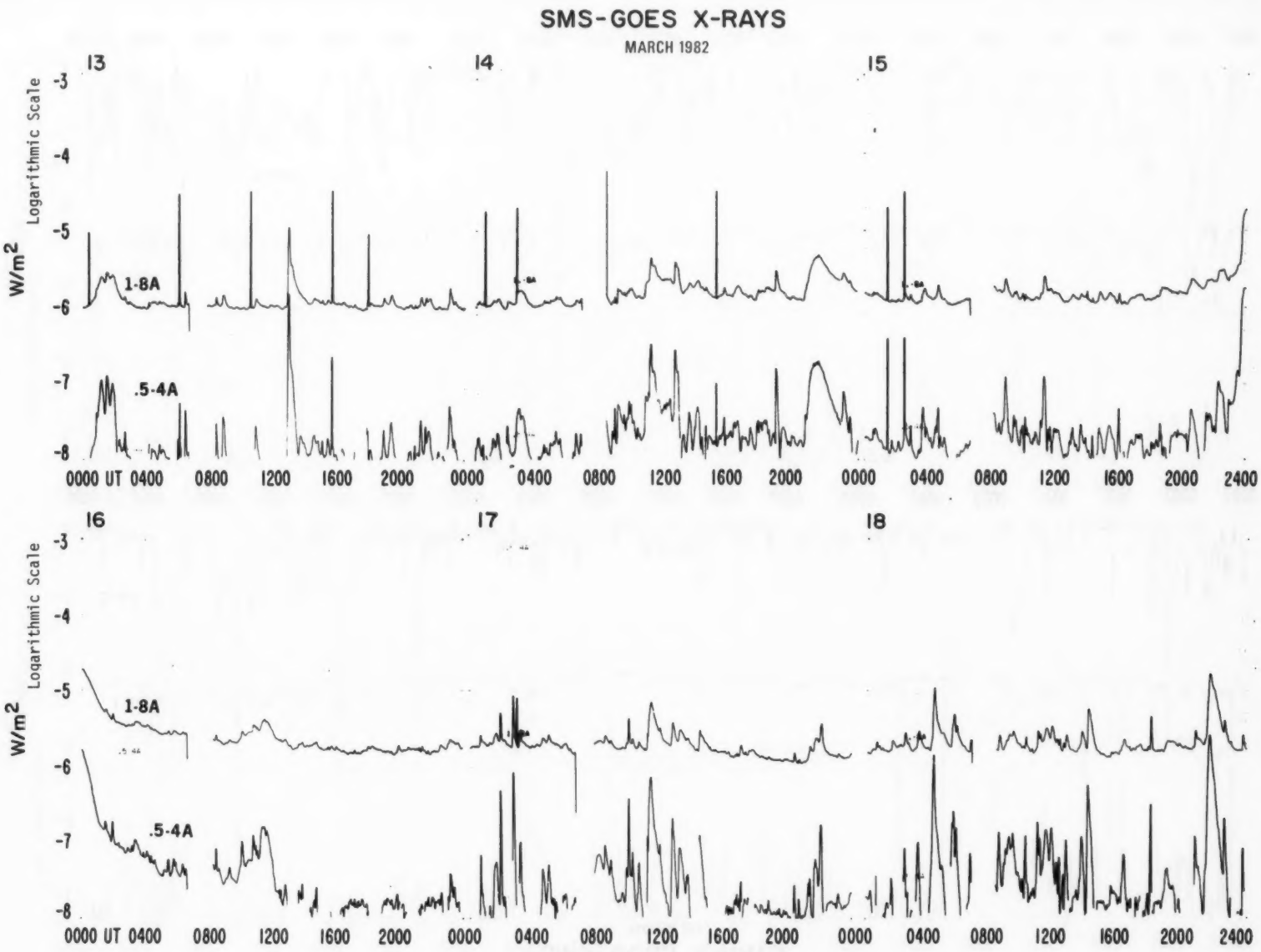


SMS-GOES X-RAYS

MARCH 1982

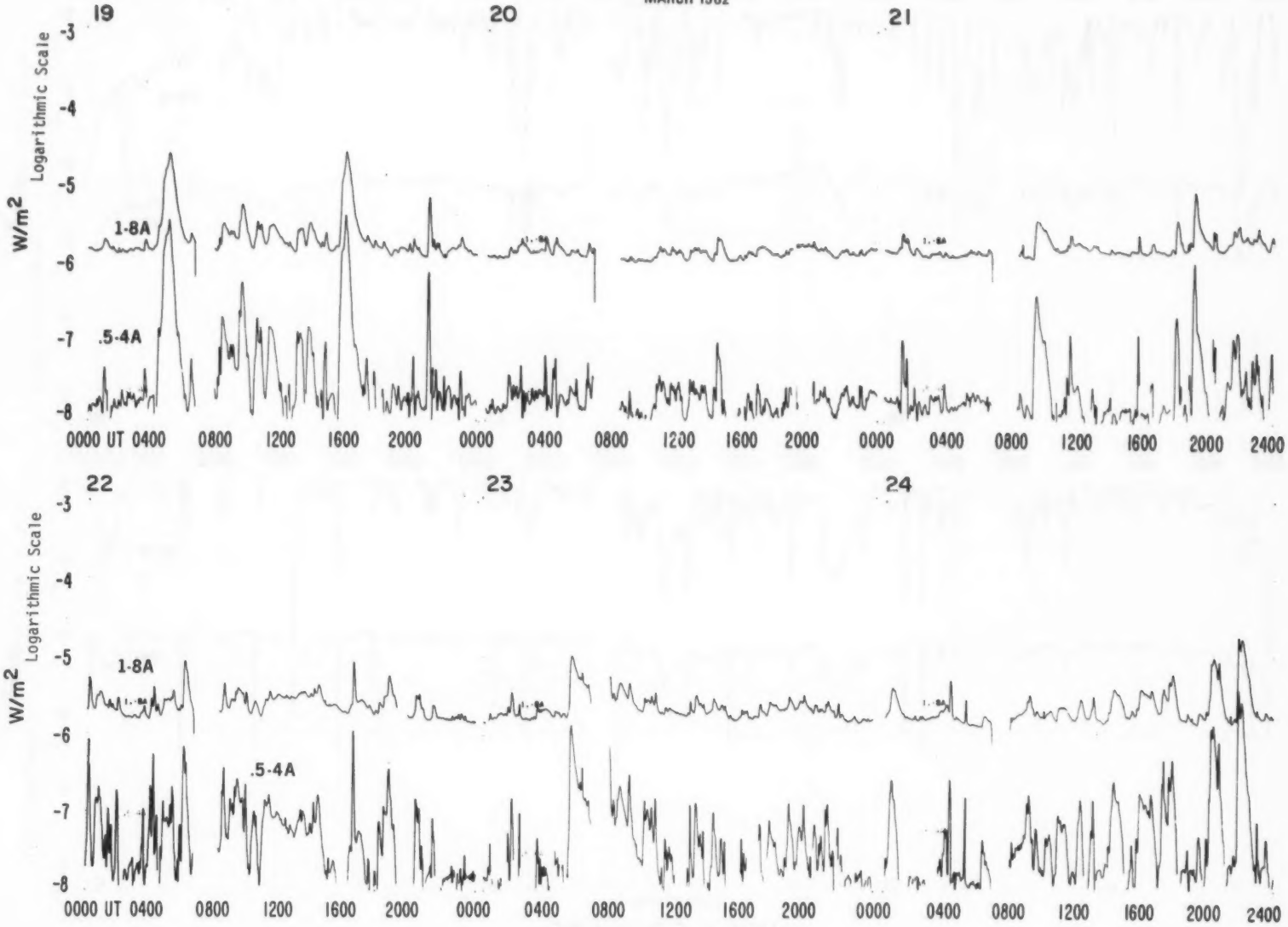


SMS-GOES X-RAYS


SMS-GOES X-RAYS
MARCH 1982
13
14
15
16
17
18
Logarithmic Scale
W/m2
-3
-4
-5
-6
-7
-8
1-8A
.5-4A
0000 UT 0400 0800 1200 1600 2000 0000 0400 0800 1200 1600 2000 0000 0400 0800 1200 1600 2000 2400

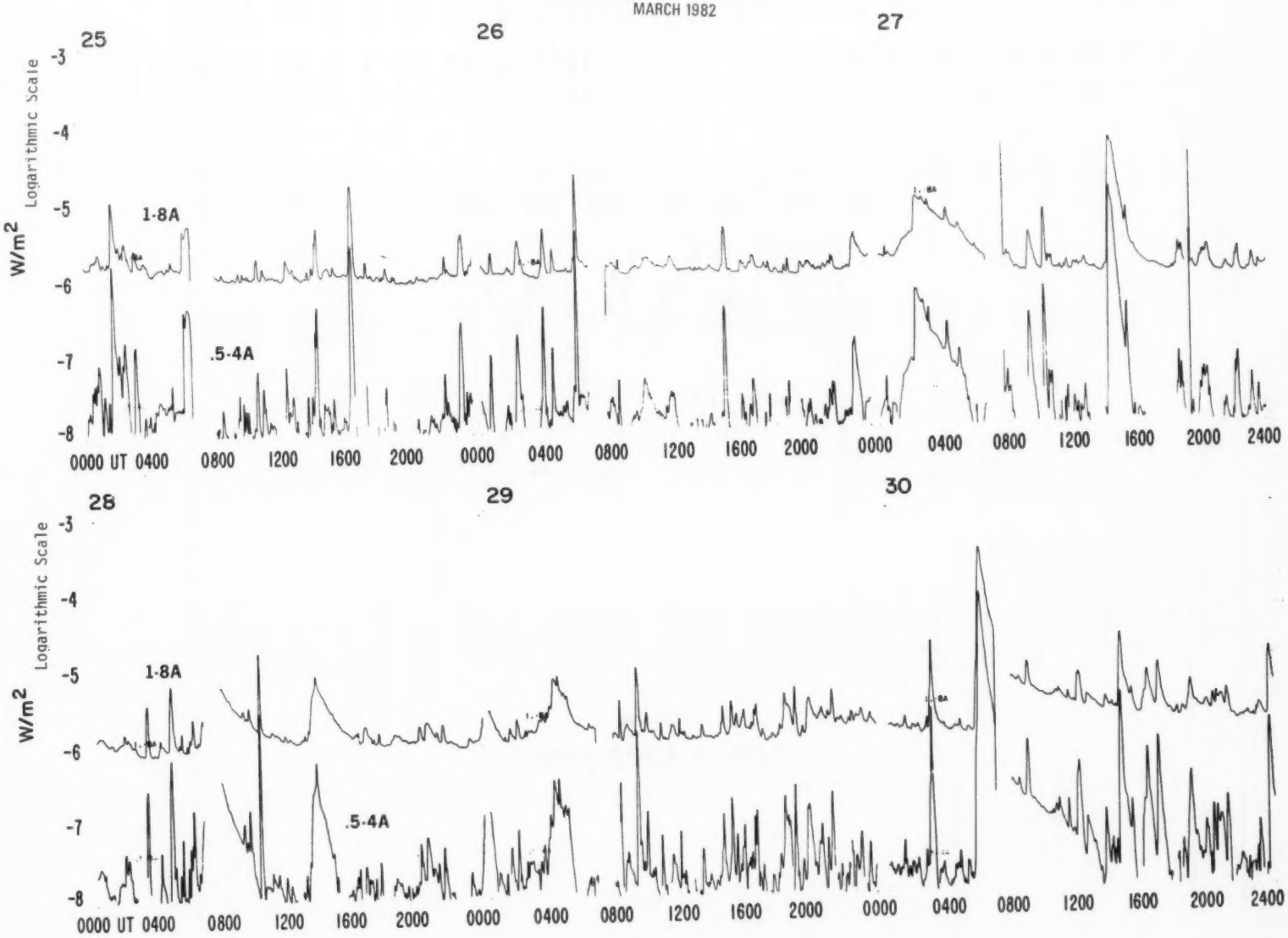
SMS-GOES X-RAYS

MARCH 1982



SMS-GOES X-RAYS

MARCH 1982



SMS-GOES X-RAYS
MARCH 1982
31
1-8A
.5-4A
W/m²
Logarithmic Scale
-3
-4
-5
-6
-7
-8
0000 UT 0400 0800 1200 1600 2000 2400

MASS EJECTIONS FROM THE SUN

March 1982

Sta	Day	Observed UT Start	Max	End	Location RA°	R/R_o	Freq or Wavelength	Kind of Event
HARV	Mar 02	1849		1902			Meter	II
HARV	Mar 03	1648		1705			Meter	II
LEAR	Mar 04	0107.7		0119.2			Meter	II
PALE	Mar 04	0308.6		0319.7			Meter	II
CULG	Mar 07	0256.5		0258			Meter	Possible II
WEIS	Mar 07	1355.8		1359.6			50-240 MHz	II Harmonic
HARV	Mar 07	1356		1359			Meter	II
WEND	Mar 08	1423	1431	1454	280	1.00-1.07	H-alpha	S
CULG	Mar 10	0220.5		0221.5			Meter	Possible II
WEND	Mar 10	0940	0956	1011	285	1.00	H-alpha	S
PALE	Mar 10	1844.4		1850.0			Meter	IV
HARV	Mar 10	1850		1911			Meter;dekameter	II
KHAR	Mar 15	0910		0944	083	0.85	H-alpha	S
HARV	Mar 15	2341		2357			Meter	II
LEAR	Mar 15	2345.1		2351.0			Meter	II
LEAR	Mar 15	2347.1		2351.0			Meter	II
LEAR	Mar 15	2354.0		0023.0			Meter	IV
ABST	Mar 16	0608E	0622	0635D	074	1.00	H-alpha	A
KHAR	Mar 16	1019		1035	044	0.54	H-alpha	S
KHAR	Mar 20	1038		1058	257	0.67	H-alpha	S
KHAR	Mar 20	1124	1129	1156	079	0.72	H-alpha	S
WEIS	Mar 20	1501.8		1507.5			Meter	II
HARV	Mar 20	1502		1508			Decimeter;meter	II
LEAR	Mar 21	0417.9		0433.7			Meter	II
KHAR	Mar 21	0940		1017	112	1.00	H-alpha	S
KHAR	Mar 21	0950		1002	110	1.00	H-alpha	S
KHAR	Mar 21	1112		1140	108	1.00	H-alpha	S
PALE	Mar 21	1754.1		1758.1			Meter	II
HARV	Mar 21	1801		1809			Meter	II
KHAR	Mar 22	0930		1004	077	1.00	H-alpha	S
LEAR	Mar 23	0146.9		0152.2			Meter	II
LEAR	Mar 23	0731.1		0732.5			Meter	II
KHAR	Mar 24	1100		1108	076	1.00	H-alpha	S
WEND	Mar 24	1353	1400	1414	074	1.00	H-alpha	S
BLEN	Mar 26	0931.6		1002.8			Decimeter;meter	IV
KHAR	Mar 27	1012		1020	058	0.33	H-alpha	S
ABST	Mar 28	0514E	0518	0535D	278	0.35	H-alpha	SP
ABST	Mar 28	0719E	0732	0753D	284	0.40	H-alpha	SP
ABST	Mar 30	0529		0536D	080	0.26	H-alpha	SP
LEAR	Mar 30	0539.4		0549.0			Meter	II
BLEN	Mar 30	0544E		0920			Decimeter;meter	IV Zebra pattern
LEAR	Mar 30	0546.0		0929.5			Meter	IV

MAY 1980 DATA

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H - ALPHA SOLAR FLARES

MAY 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
45 CULG	01	0023	0024	0027	N12	E40	.681	16808	4.0	4	-F		C	0024	60	.8	
46 CULG	01	0039	0041	0045	S16	E04	.216	16802	1.3	6	-F		C	0041	100	1.0	TL
47 CULG	01	0113	0115	0128	S16	E04	.216	16802	1.4	15	-F		C	0115	110	1.1	TL
48 CULG	01	0205	0206	0220	S16	E03	.211	16802	1.3	15	-F		C	0206	120	1.2	TL
GRP84049	01	0328+3	0332+2	0339	S22	E70	.939	16815	6.4	11	1N				60		D
CULG	01	0328	0332	0339	S23	E75	.964	16815	6.8	11	1F		C	0332	70		
PURP	01	0328	0332	0341	S22	E70	.939	16815	6.4	13	1B		C				D
PALE	01	0331	0334	0339	S22	E70	.939	16815	6.4	8	-F	3	C		50		
50 CULG	01	0500	0504	0512	S23	W80	.982		25.2	12	?F		C	0504	80		
			IMP.1 NO : PURP YUNN														
GRP84051	01	0612+5	0617+3 0636	0707	S16	W05	.221	16802	30.9	55	-N						DLZ
CULG	01	0612	0636	0707	S16	W05	.221	16802	30.9	55	-N		P	0636	100	1.0	TL
CATA	01	0615	0620	0715	S17	W06	.244	16802	30.8	60	-N	2	C	0620	56	.6	Z
PURP	01	0617	0617	0632	S16	W05	.221	16802	30.9	15	-N		C				D
52 CULG	01	0624	0634	0650	N10	E10	.298	16801	2.0	26	-F		C	0634	110	1.1	
53 CULG	01	0627	0630	0638	S20	E65	.907	16815	6.1	11	-F		C	0630	70	1.6	
54 CULG	01	0648	0652	0656	N07	E41	.675	16808	4.4	8	-F		C	0652	120	1.6	F
55 PURP	01	0726	0727	0732	S23	E70	.940	16815	6.6	6	?B		C				E
			IMP.1 NO : YUNN CATA														
56 YUNN	01	0910	0915	0925	S22	W56	.839	16805	27.2	15	1N		C		161	3.2	
	01	1015	1200	NO FLARE PATROL													
57 RAMY	01	1205	1223	1234	S25	W56	.844	16805	27.3	29	-F	3	C		110		
58 RAMY	01	1214	1215	1258	S19	W01	.256	16802	1.4	44	-F	3	C		36		
	01	1542	1546	NO FLARE PATROL													
59 BIGB	01	1555	1559	1629	N25	E74	.976	16812	7.2	34	1B	1	C	1559	200		
60 BIGB	01	1622	1625	1647	S21	E63	.894	16815	6.4	25	-N	1	C	1625	80	1.8	
61 BIGB	01	1642	1645	1701	S23	W59	.865	16805	27.3	19	-N	1	C	1645	100	2.0	
	01	1713	1719	NO FLARE PATROL													
	01	1722	1733	NO FLARE PATROL													
	01	1740	1746	NO FLARE PATROL													
GRP84062	01	1816>9	1840+3	1920	S24	W61	.882	16805	27.2	64	-B						
HOLL	01	1816	1840	1915	S25	W60	.876	16805	27.3	59	1B	3	C		227		
RAMY	01	1840	1843	1925	S24	W62	.889	16805	27.1	45	-N	3	C		76		
GRP84063	01	1851>9	1915+1	1941	S20	E59	.862	16815	6.2	50	2B				290	5.9	D
RAMY	01	1851	1915	1941	S22	E60	.872	16815	6.3	50	1B	3	C		285		D
HOLL	01	1907	1916	1917D	S19	E59	.860	16815	6.2	10D	1B	3	C		299		
64 RAMY	01	1928	1931	1943	S17	W07	.251	16802	1.3	15	-F	3	C		28		
65 RAMY	01	2003	2004	2028	S24	W65	.910	16805	27.0	25	-F	3	C		25		
66 HOLL	01	2104	2104	2151	S35	W90	.999		25.1	47	-N	3	C				
	01	2116	2140	NO FLARE PATROL													
67 CULG	01	2154	2158	2207	S20	E56	.836	16815	6.1	13	-F		C	2158	60	1.1	
	01	2214	2220	NO FLARE PATROL													

H - ALPHA S O L A R F L A R E S

MAY 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
68 YUNN	02	0020	0023	0030	S22	W66	.915	16805	27.1	10	?N	C		129		E
			IMP.1 NO : MITK PALE PURP													
69 PALE	02	0034	0036	0045	N20	E62	.910	16812	6.7	11	-F	2 C		30		D
70 PALE	02	0106	0106	0110	S26	W65	.912	16805	27.2	4	-F	2 C		22		D
71 PALE	02	0225	0226	0243	S24	W69	.935	16805	26.9	18	-F	2 C		25		D
GRP84072	02	0310	0310 0315	0321	N22	W81	.993		26.1	11	-F					D
PALE	02	0310	0310	0321	N23	W83	.996		25.9	11	-F	2 C				D
PALE	02	0315	0315	0320	N22	W80	.991		26.1	5	-F	2 C				D
73 PALE	02	0340	0340	0345	S17	E51	.784	16815	6.0	5	-F	2 C		19		D
74 PALE	02	0354	0355	0357	S20	E58	.854	16815	6.5	3	-F	2 C		17		D
75 ABST	02	0621E	0626	0631D	N25	W85	.999		25.9	10D	?F	P	0626	87		EDJ
			IMP.1 NO : PURP YUNN MITK CATA													
76 CATA	02	0625	0625	0630	N26	E63	.927	16812	7.0	5	?N	1 C	0625	84		
			IMP.1 NO : PURP YUNN MITK ABST													
77 HTPR	02	0639	0640	0645	S25	W64	.905	16805	27.5	6	-F	C	0640	20	.4	
GRP84078	02	0710E	0716 0734	0736D	S16	W13	.300	16802	1.3	26	-F					
ABST	02	0710E	0716	0736D	S15	W14	.302	16802	1.2	26D	-F	P	0716	96	1.0	D
ABST	02	0732	0734	0736D	S17	W13	.311	16802	1.3	4D	-F	P	0734	79	.9	D
79 ABST	02	0819	0820	0834	S17	W13	.311	16802	1.4	15	-F	C	0820	87	1.0	DV
80 ABST	02	0859	0903	0913	N25	W85	.999		26.0	14	?F	C	0903	87		D
			IMP.1 NO : HTPR YUNN KANZ CATA													
GRP84081	02	0936+5	0946+3	1012	S20	E49	.769	16815	6.1	36	1N			220	3.5	EJK
ABST	02	0936	0949	1010D	S18	E49	.765	16815	6.1	34D	1N	P	0949	262	4.1	FJK
KANZ	02	0937	0949	1003	S20	E48	.759	16815	6.0	26	-N	2				
HTPR	02	0937	0947	1020	S20	E50	.779	16815	6.2	43	1N	C	0947	180	2.8	E
YUNN	02	0941	0949	1013	S21	E50	.781	16815	6.2	32	1N	C		257	4.3	E
MANI	02	0944E	0946U	0952D	S20	E49	.769	16815	6.1	8D	-N	1 V		80	1.3	
82 KANZ	02	1009	1009	1018	N25	W80	.992		26.4	9	-N	2				
83 CATA	02	1130	1130	1130D	N24	W90	1.000		25.7		?N	2 P	1130	56		
			IMP.1 NO : HTPR													
GRP84084	02	1139+2	1141+6	1205	S19	E48	.756	16815	6.1	26	-F			60	.9	E
RAMY	02	1139	1141	1210	S19	E48	.756	16815	6.1	31	-N	3 C		65		
HTPR	02	1141	1147	1200	S20	E49	.769	16815	6.2	19	-F	C	1147	50	.8	E
GRP84085	02	1208+1	1208+1	1211	S25	W67	.924	16805	27.5	3	-N			25		
RAMY	02	1208	1208	1212	S26	W68	.930	16805	27.4	4	-N	3 C		19		
HTPR	02	1209	1209	1210	S25	W67	.924	16805	27.5	1	-N	C	1209	30	.7	
GRP84086	02	1237+1	1241+0	1246	S18	W22	.433	16802	30.9	9	-N			70	.8	
RAMY	02	1237	1241	1247	S18	W22	.433	16802	30.9	10	-B	3 C		94		
HTPR	02	1238	1241	1244	S18	W23	.446	16802	30.8	6	-N	C	1241	50	.6	
GRP84087	02	1249+4	1255+0	1258D	S17	W18	.372	16802	1.2	9	-B					E
RAMY	02	1249	1255	1256D	S17	W13	.311	16802	1.6	7D	-B	3 C		64		
RAMY	02	1249	1255	1329	S18	W23	.446	16802	30.8	40	-B	3 C		64		
HTPR	02	1253	1253	1255	S16	W14	.312	16802	1.5	2	-F	C	1253	30	.3	E
HTPR	02	1254	1255	1258	S18	W23	.446	16802	30.8	4	-B	C	1255	40	.4	
88 RAMY	02	1307	1307	1313	S19	E48	.756	16815	6.1	6	-F	3 C		17		
GRP84089	02	1405+1	1407+0	1410	S25	W68	.930	16805	27.5	5	-N			15		
HTPR	02	1405	1407	1410	S25	W68	.930	16805	27.5	5	-N	C	1407	20	.5	
RAMY	02	1406	1407	1410	S26	W69	.936	16805	27.4	4	-N	3 C		13		

H - ALPHA S O L A R F L A R E S

MAY 1980

	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Apper (Disk)	Corr (Sq Deg)	Remarks
90	RAMY	02	1418	1432	1443	S18	W18	.382	16802	1.2	25	-F	3	C		23		
GRP84091		02	1445+9	1454+2 1517	1544	S18	W21	.420	16802	1.0	59	-N				110	1.2	
	RAMY	02	1445	1455	1544	S19	W23	.453	16802	30.9	59	-N	3	C		107		
	KANZ	02	1448	1456	1519D	S18	W20	.407	16802	1.1	31D	-N	1					
	HOLL	02	1450	1454	1543	S17	W17	.360	16802	1.3	53	-B	3	C		145		
	HTPR	02	1454		1510D	S18	W24	.459	16802	30.8	16D	-N		C	1456	60	.7	
	HOLL	02	1516	1517	1544	S19	W22	.441	16802	1.0	28	-N	3	C		105		
92	RAMY	02	1511	1511	1518	N24	W84	.998		26.3	7	-F	3	C				
GRP84093		02	1517+2	1517	1530	S21	E48	.761	16815	6.2	13	-N						
	HOLL	02	1517	1517	1530	S21	E49	.771	16815	6.3	13	-N	3	C		35		
	KANZ	02	1519		1519D	S22	E48	.764	16815	6.2		-F	2					
94	HOLL	02	1557	1601	1613	S19	E47	.746	16815	6.2	16	-F	3	C		31		
95	BIGB	02	1632	1633	1652	S14	W85	.995		26.3	20	?N	2	C	1633	50		
				IMP.1 NO : HOLL HTPR														
GRP84096		02	1705+1	1706	1745	S19	E45	.724	16815	6.1	40	-F						E
	HOLL	02	1705	1706	1745	S18	E46	.732	16815	6.2	40	-N	3	C		66		
	HTPR	02	1706		1709D	S20	E45	.727	16815	6.1	3D	-F		C	1709	20	.3	E
GRP84097		02	1722+1	1725+1	1744	S16	W17	.350	16802	1.4	22	1N				250	2.7	
	HOLL	02	1722	1726	1727D	S15	W18	.355	16802	1.4	5D	1N	3	C		243		
	PALE	02	1723	1725	1744	S17	W17	.360	16802	1.4	21	1N	3	C		260		
GRP84098		02	1746+1	1750+0	1803	S16	W18	.364	16802	1.4	17	-B				140	1.5	
	HOLL	02	1722	1750	1804	S15	W18	.355	16802	1.4	42	-B	3	C		162		
	PALE	02	1746	1750	1803	S16	W18	.364	16802	1.4	17	-B	3	C		156		
	RAMY	02	1747	1750	1802	S17	W19	.385	16802	1.3	15	-N	3	C		108		
GRP84099		02	1817+3	1820 1830	1845	S17	W17	.360	16802	1.5	28	-N						
	HOLL	02	1817	1820	1848	S17	W14	.323	16802	1.7	31	-B	3	C		76		
	RAMY	02	1820	1830	1841	S17	W20	.398	16802	1.3	21	-N	3	C		39		
100	HOLL	02	1832	1833	1838	N27	E61	.917	16812	7.3	6	-F	3	C		19		
GRP84101		02	2024+4	2029+4	2043	S18	W17	.370	16802	1.6	19	-F				45	.5	
	PALE	02	2024	2033	2046D	S19	W14	.346	16802	1.8	22D	-F	3	C		49		
	HOLL	02	2028	2029	2039	S17	W20	.398	16802	1.4	11	-N	3	C		41		
GRP84102		02	2047+0	2048+0	2102	S18	W17	.370	16802	1.6	15	-F				50	.5	D
	PALE	02	2047	2048	2102	S19	W14	.346	16802	1.8	15	-N	3	C		70		D
	RAMY	02	2047	2048	2054D	S17	W21	.412	16802	1.3	7D	-F	3	C		28		
103	HOLL	02	2218	2218	2224	S19	E45	.724	16815	6.3	6	-F	3	C		25		
104	PALE	02	2254	2255	2305	S19	E43	.701	16815	6.2	11	-F	3	C		35		D
105	PALE	02	2302	2302	2304	S25	W76	.969	16805	27.3	2	-F	2	C				
GRP84106		02	2344+6	2353+6 2406+1	0042	N25	E57	.887	16812	7.3	58	1N						
	PURP	03	0012	0015	0015D	N24	E54	.862	16812	7.1	3D	1F		P				
	PALE	02	2344	2406	0047	N27	E56	.886	16812	7.2	63	2N	3	C		300		D
	MITK	02	2347	2407	0035	N22	E58	.886	16812	7.3	48	1N		C	2407	140	3.0	E
	MANI	02	2348	2359	0037	N26	E57	.889	16812	7.3	49	1N	2	P		150	2.9	
	BIGB	02	2350	2353	0054D	N25	E57	.887	16812	7.3	64D	1N	1	P	2353	200	3.8	
107	PALE	03	0050	0052	0058	S20	E47	.749	16815	6.6	8	-F	3	C		38		D
GRP84108		03	0141E	0205+2 0220	0221	S18	W18	.383	16802	1.7	40	1N				210	2.3	
	PALE	03	0141E	0205U	0244D	S19	W14	.347	16802	2.0	63D	1B	3	C		197		D
	YUNN	03	0143E	0143	0152	S18	W18	.383	16802	1.7	9D	-N		C		161	1.8	E
	MANI	03	0200	0206	0210D	S17	W17	.361	16802	1.8	10D	1N	2	P		220	2.4	
	MITK	03	0205	0207	0220	S18	W18	.383	16802	1.7	15	-N		C	0207			E
	CULG	03	0217E	0220U	0234	S16	W18	.365	16802	1.7	17D	-N		P	0220	90	1.0	F

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
109 CULG	03	0234	0237	0242	S23	E36	.638	16815	5.8	8	-F		C	0237	60	.8	
110 CULG	03	0234	0236	0248U	N12	E13	.351	16808	4.1	14D	-F		C	0236	80	.8	
111 CULG	03	0438E	0455U	0506D	N18	E46	.770	16812	6.6	28D	-N		P	0455	120	1.8	
112 YUNN	03	0640E	0640	0641	S20	W42	.694		30.1	1D	-N		C		64	.9	
GRP84113	03	0753+9	0803+4	0818	N25	E53	.857	16812	7.3	25	1B				150	2.8	
MANI	03	0753	0803	0815	N25	E53	.857	16812	7.3	22	-N	2	P		110	2.1	
WEND	03	0753E	0804	0818	N25	E52	.850	16812	7.2	25D	1B		C	0804	113	2.1	
YUNN	03	0802	0807	0820	N25	E53	.857	16812	7.3	18	1B		C		225	4.5	
114 WEND	03	0800	0804	0814	S16	W23	.432	16802	1.6	14	-F		C	0804	41	.5	
115 WEND	03	0819	0829	0842	S16	W21	.405	16802	1.8	23	-N		C	0829	50	.6	E
116 CATA	03	0825E	0825	0830	N26	E53	.861	16812	7.3	5D	?B	1	P	0825	112	2.3	
		IMP.1 NO : YUNN WEND HTPR															
GRP84117	03	0858+2	0900+2	0905	S21	E37	.640	16815	6.1	7	-F				80	1.1	
WEND	03	0858	0900	0905	S21	E37	.640	16815	6.1	7	-F		C	0900	68	.9	
YUNN	03	0900	0902	0905	S21	E38	.651	16815	6.2	5	-N		C		96	1.3	
118 WEND	03	0917	0917	0923	S33	W34	.682		30.8	6	-F		C	0917	47	.7	
	03	1021	1030	NO FLARE PATROL													
119 ABST	03	1037	1038	1040D	N20	E42	.740	16812	6.6	3D	-F		P	1038	122	1.8	
	03	1050	1107	NO FLARE PATROL													
	03	1145	1212	NO FLARE PATROL													
120 RAMY	03	1239	1304	1421	S26	E43	.727	16815	6.8	102	1N	3	C		406		
	03	1245	1255	NO FLARE PATROL													
	03	1452	1513	NO FLARE PATROL													
121 RAMY	03	1620	1623	1626	S22	E38	.656	16815	6.5	6	-B	3	C		42		
GRP84122	03	1749+0	1752+3	1815D	S16	W29	.514	16802	1.6	26	1N				190	2.2	
RAMY	03	1749	1755	1815	S16	W29	.514	16802	1.6	26	1N	3	C		191		
BIGB	03	1749	1752	1910	S16	W29	.514	16802	1.6	81	1N	1	C	1752	190	2.2	
123 BIGB	03	1847	1851	1917	S22	W90	1.000	16805	27.0	30	?B	1	C	1851	50		
		IMP.1 NO : RAMY															
124 RAMY	03	2034	2037	2043D	N12	E02	.278	16808	4.0	9D	-F	3	C		55		
	03	2043	2101	NO FLARE PATROL													
	03	2104	2207	NO FLARE PATROL													
125 MANI	03	2215	2218	2234	S19	W34	.594	16802	1.4	19	-N	2	P		80	1.0	
GRP84126	03	2315+2	2318+0	2347	S19	W35	.606	16802	1.3	32	-N						E
MANI	03	2315	2318	2326	S19	W35	.606	16802	1.3	11	-N	2	P		150	2.0	
MITK	03	2317	2318	2347	S20	W35	.611	16802	1.3	30	-N		C	2318			E
CULG	03	2344E	2344E	2354	S16	W29	.514	16802	1.8	10D	-F		P	2344	80	.9	
127 CULG	04	0013	0016	0021	S16	W35	.594	16802	1.4	8	-N		C	0016	60	.8	
128 CULG	04	0021	0033	0037	S18	E21	.422	16815	5.6	16	-F		C	0033	20	.2	
129 BIGB	04	0041	0043	0058	S22	W90	1.000	16805	27.3	17	?B	1	C	0043	60		
		IMP.1 NO : CULG MITK															
130 CULG	04	0113	0119	0134	S18	E23	.447	16815	5.8	21	-N		C	0119	120	1.2	F
131 CULG	04	0206	0209	0215	S18	E20	.409	16815	5.6	9	-N		C	0209	80	.9	F
132 CULG	04	0301	0302	0306	S33	W37	.709		1.4	5	-F		C	0302	60	.8	

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	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
133	CULG	04	0315	0316	0330	S18	W37	.627	16802	1.4	15	-F		C	0316	60	.8	
GRP84134		04	0407+2	0413+0	0426	S17	E21	.413	16815	5.7	19	-N				60	.7	D
	CULG	04	0407	0413	0431	S17	E21	.413	16815	5.7	24	-N		C	0413	90	1.0	
	TACH	04	0409	0413	0420	S18	E21	.422	16815	5.7	11	-B		C	0413	35	.4	D
GRP84135		04	0412>9	0430 0439	0449	S17	W32	.559	16802	1.8	37	-N						E
	CULG	04	0412	0439	0500	S16	W33	.568	16802	1.7	48	-N	*	C	0439	110	1.3	
	TACH	04	0426	0430	0438	S18	W31	.551	16802	1.9	12	-B	*	C	0430	44	.5	E
GRP84136		04	0416+2	0418+1	0422	N10	W02	.242	16808	4.0	6	-F				35	.4	DH
	CULG	04	0416	0418	0423	N10	W01	.240	16808	4.1	7	-F		C	0418	50	.5	H
	TACH	04	0418	0419	0421	N10	W03	.245	16808	4.0	3	-N		C	0419	18	.2	D
137	CULG	04	0442	0442	0448	N10	W01	.240	16808	4.1	6	-F		C	0442	60	.6	H
138	CULG	04	0505	0516D	0516D	S18	E19	.396	16815	5.6	11D	-F		P	0516	120	1.3	
139	YUNN	04	0613	0616	0630	S18	W38	.640	16802	1.4	17	-N		C		64	.9	
140	YUNN	04	0737	0740	0752	S17	E19	.387	16815	5.7	15	-N		C		48	.5	
141	KHAR	04	0918E	0918	0927D	S32	W05	.477	16809	4.0	9D	-F		V	0918			D
142	KHAR	04	0932E		0932D	S20	E21	.439	16815	6.0		-F		P	0932	60	.7	D
GRP84143		04	0932E	0937	1003D	S16	W41	.670	16802	1.3	31	-F						E
	KHAR	04	0932E	0937	1003D	S16	W45	.717	16802	1.0	31D	-F		P	0937	110	1.6	E
	KHAR	04	0937	0937	0947D	S16	W38	.633	16802	1.6	10D	-F		P	0937	100	1.3	E
GRP84144		04	0950E	1000 1006	1023	S18	E22	.434	16815	6.1	33	-N						E
	KHAR	04	0950E	1000	1013D	S20	E27	.513	16815	6.4	23D	-F		P	1000	60	.7	D
	KHAR	04	0953	1006	1023	S17	E18	.375	16815	5.8	30	-N		P	1003	50	.6	E
145	KHAR	04	1023E	1027	1040D	S20	W69	.933	16823	29.3	17D	-F		P	1027	70		E
GRP84146		04	1030E	1030 1041	1050D	S17	W42	.685	16802	1.3	20	-F						E
	KHAR	04	1030E	1030	1040D	S20	W41	.683	16802	1.4	10D	-F		V				E
	KHAR	04	1037E	1041	1050D	S14	W43	.689	16802	1.2	13D	-F		V	1041			D
147	KHAR	04	1107E	1110	1113D	S17	W46	.731	16802	1.0	6D	-F		V				
148	KHAR	04	1110E	1131	1135D	S18	E20	.409	16815	6.0	25D	-F		P				K
149	KHAR	04	1110E	1117	1130D	N07	W03	.196	16808	4.2	20D	-F		P	1117			
150	KHAR	04	1128E	1131	1141D	S18	W49	.766	16802	30.8	13D	-F		P	1131	50	.8	D
151	KHAR	04	1214E	1214	1218D	S20	W44	.717	16802	1.2	4D	-F		P	1214	70	1.0	
152	KHAR	04	1254E	1258	1329D	S18	E18	.384	16815	5.9	35D	-F		P	1258	40	.4	E
GRP84153		04	1508+0	1509+1	1516	S19	W42	.691	16802	1.5	8	-B				90	1.3	
	HOLL	04	1508	1510	1515	S20	W42	.694	16802	1.5	7	-B	3	C		96		
	BIGB	04	1508	1509	1517	S19	W42	.691	16802	1.5	9	-B	1	C	1509	80	1.0	
154	BIGB	04	1630	1635	1641	S07	E90	1.000	16825	11.4	11	?N	2	C	1635	60		
				IMP.1 NO : HOLL														
GRP84155		04	1825+4	1830+0	1839	S17	W41	.673	16802	1.7	14	-F				40	.5	
	HOLL	04	1825	1830	1840	S17	W41	.673	16802	1.7	15	-N	3	C		46		
	PALE	04	1829	1830	1837	S17	W41	.673	16802	1.7	8	-F	3	C		25		
156	HOLL	04	2105	2107	2109	S19	E17	.382	16815	6.2	4	-N	3	C		22		
157	CULG	04	2150	2154	2159	S21	E10	.337	16815	5.7	9	-F		C	2154	100	1.1	HT

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP84158	04	2204+2	2205+1	2212	S21	E22	.460	16815	6.6	8	-F						
CULG	04	2204	2205	2212	S22	E22	.469	16815	6.6	8	-N		C	2205	120	1.3	T
HOLL	04	2206	2206	2212	S21	E22	.460	16815	6.6	6	-F	3	C		27		
159 CULG	04	2219	2223	2245	S15	W43	.692	16802	1.7	26	-N		C	2223	100	1.4	F
160 CULG	04	2232	2237	2244	S22	E10	.351	16815	5.7	12	-F		C	2237	60	.7	HT
161 CULG	04	2305U	2314	2322	S22	E13	.376	16815	5.9	17D	-F		C	2314	50	.6	T
GRP84162	04	2328+8	2336+4	2346	S20	W47	.749	16802	1.5	18	-N						FK
CULG	04	2328	2336	0007	S18	W48	.755	16802	1.4	39	-N		C	2336	110	1.7	FK
MANI	04	2335	2337	2346	S19	W48	.787	16802	1.4	11	-N	2	P		80	1.3	
PALE	04	2336	2340	2345	S21	W47	.752	16802	1.5	9	-N	3	C		43		
HOLL	04	2336	2336	2344	S21	W47	.752	16802	1.5	8	-N	3	C		21		
163 CULG	05	0023	0024	0032	S22	E08	.339	16815	5.6	9	-F		C	0024	120	1.3	T
164 CULG	05	0025	0027	0031	S18	W60	.869	16802	30.5	6	-F		C	0027	50	1.0	
165 CULG	05	0035	0037	0039	S19	W48	.758	16802	1.4	4	-F		C	0037	50	.8	
166 CULG	05	0038	0040	0044	S22	E08	.339	16815	5.6	6	-F		C	0040	140	1.5	T
167 CULG	05	0128	0132	0147	S21	E07	.318	16815	5.6	19	-N		C	0132	100	1.1	T
168 CULG	05	0201	0201	0204	S18	W49	.766	16802	1.4	3	-F		C	0201	50	.8	
169 CULG	05	0218	0219	0224	S18	W49	.766	16802	1.4	6	-F		C	0219	40	.6	
170 CULG	05	0250	0251	0308D	S18	W49	.766	16802	1.4	18D	-F		P	0251	50	.8	K
171 CULG	05	0340	0343	0352	S19	W76	.968	16823	29.5	12	-F		C	0343	40		
172 CULG	05	0356	0402	0419	S21	E06	.312	16815	5.6	23	-F		C	0402	120	1.3	TU
173 CULG	05	0406	0418U	0440	N07	W12	.278	16808	4.3	34	-N		C	0418	110	1.1	F
174 CULG	05	0410	0430	0443	S15	W55	.822	16802	1.0	33	?F		C	0430	320	5.4	FI
			IMP.2 NO : PURP														
GRP84175	05	0455+6	0457	0508	S19	E07	.287	16815	5.7	13	-F						F
			0507														
CULG	05	0455	0457	0502	S22	E08	.339	16815	5.8	7	-N		C	0457	100	1.1	T
CULG	05	0501	0507D	0513	S17	E06	.250	16815	5.7	12	-F		P	0507	120	1.2	TF
GRP84176	05	0519+0	0521+0	0527	S18	E05	.259	16815	5.6	8	-N				160	1.7	E
CULG	05	0519	0521	0527	S18	E05	.259	16815	5.6	8	-N		C	0521	150	1.5	T
ABST	05	0519E	0521	0527	S18	E05	.259	16815	5.6	8D	-N		P	0521	183	2.0	E
177 CULG	05	0534U	0535	0545	S23	E06	.343	16815	5.7	11D	1F		C	0535	280	2.9	TH
	05	0555	0600	NO FLARE PATROL													
GRP84178	05	0600E	0606+1	0611	S19	W49	.768	16802	1.6	11	-N				90	1.4	D
ATHN	05	0600E	0607	0611	S19	W45	.725	16802	1.9	11D	-N	3	V	0607	95	1.4	
ABST	05	0605E	0606	0611	S20	W54	.819	16802	1.2	6D	-N		P	0606	87	1.5	D
179 ABST	05	0701	0705	0729	N07	W14	.303	16808	4.2	28	-F		C	0705	96	1.0	DJ
180 ABST	05	0707	0709	0711	S22	E15	.396	16815	6.4	4	-N		C	0709	105	1.2	DJ
181 ABST	05	0727	0729	0732D	S27	E18	.483	16815	6.7	5D	-F		P	0729	79	.9	DJ
GRP84182	05	0822E	0824+3	0848	S27	E20	.501	16815	6.8	26	-F						DJ
ABST	05	0822E	0827	0848	S29	E21	.532	16815	6.9	26D	-F		P	0827	87	1.1	DJ
MANI	05	0824E	0824U	0840D	S26	E20	.490	16815	6.8	16D	-F	1	V		15	1.0	
183 ABST	05	0837	0844	0904D	N22	E21	.544	16812	6.9	27D	-F		P	0844	148	1.8	E
	05	1021	1028	NO FLARE PATROL													

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
	05	1036	1110	NO FLARE PATROL													
	05	1235	1250	NO FLARE PATROL													
GRP84184	05	1439+5	1444+1	1454	S20	W55	.828	16802	1.5	15	1B				120	2.2	
HOLL	05	1439	1444	1456	S21	W55	.830	16802	1.5	17	-B	3	C		143		
RAMY	05	1444	1445	1452	S20	W56	.837	16802	1.4	8	-B	3	C		110		
	05	1507	1514	NO FLARE PATROL													
GRP84185	05	1536+1	1537+0	1544	S20	E00	.279	16815	5.6	8	-F				40	.4	
RAMY	05	1536	1537	1545	S20	W01	.280	16815	5.6	9	-F	3	C		52		
HOLL	05	1537	1537	1542	S20	E01	.280	16815	5.7	5	-F	3	C		29		
	05	1638	1650	NO FLARE PATROL													
GRP84186	05	1646+4	1647+5	1655	S18	W50	.776	16802	1.9	9	-F						
RAMY	05	1646	1647	1651	S17	W51	.785	16802	1.9	5	-F	3	C		16		
HOLL	05	1650	1652	1658	S20	W50	.780	16802	2.0	8	-F	3	C		81		
187 HOLL	05	1654	1654	1657	S20	E03	.284	16815	5.9	3	-N	3	C		31		
	05	1720	1729	NO FLARE PATROL													
188 HOLL	05	1733	1735	1805	S16	W56	.832	16802	1.5	32	-F	3	C		31		
189 HOLL	05	1810	1816	1831	S19	W63	.893	16802	1.0	21	-F	3	C		40		
GRP84190	05	1927+3	1932+5	1956	S25	E14	.425	16815	6.9	29	-N				130	1.4	D
HOLL	05	1927	1937	1953	S27	E15	.458	16815	6.9	26	-N	3	C		91		
PALE	05	1930	1932	1958	S24	E14	.412	16815	6.9	28	1F	3	C		179		D
191 PALE	05	1932	1951	2006	S17	W62	.884	16802	1.2	34	-F	3	C		33		
192 HOLL	05	2013	2017	2022	S17	W01	.229	16815	5.8	9	-F	3	C		42		
	05	2106	2118	NO FLARE PATROL													
193 CULG	05	2212	2213	2222	S21	W01	.296	16815	5.8	10	-F		C	2213	70	.7	T
194 CULG	05	2226	2226	2232	S18	W60	.869	16802	1.4	6	-N		C	2226	80	1.6	
195 CULG	05	2253	2254	2258	S22	W03	.316	16815	5.7	5	-F		C	2254	160	1.6	TH
GRP84196	05	2307+2	2311+0	2319	S17	W54	.815	16802	1.9	12	-N				80	1.4	
MANI	05	2307E	2311	2318	S17	W54	.815	16802	1.9	11D	-N	2	P		80	1.4	
CULG	05	2308	2311	2320	S17	W54	.815	16802	1.9	12	1N		C	2311	150	2.6	
PALE	05	2309	2311	2319	S20	W54	.819	16802	1.9	10	-F	3	C		53		
197 CULG	05	2318	2329	0010U	S30	W01	.442	16815	5.9	52D	-N		C	2329	100	1.1	
198 CULG	05	2333	2337	2359	S20	W05	.291	16815	5.6	26	-F		C	2337	100	1.1	TF
199 CULG	06	0004	0005	0012	S21	W02	.300	16815	5.9	8	-N		C	0005	80	.9	HT
200 CULG	06	0100	0101	0108	N24	E04	.469	16812	6.3	8	-F		C	0101	110	1.2	
GRP84201	06	0113+6	0120+1	0127	S17	W55	.824	16802	1.9	14	1N						
CULG	06	0113	0121	0132	S15	W55	.822	16802	1.9	19	1N		C	0121	170	3.1	
PURP	06	0119	0120	0122	S20	W55	.829	16802	1.9	3	1N		C				
GRP84202	06	0159>9	0218 0228+2	0249	S17	W04	.240	16815	5.8	50	-N						
CULG	06	0159	0228	0259U	S19	W05	.277	16815	5.7	60D	1F		C	0228	290	3.1	TF
MANI	06	0211	0218	0249D	S17	W03	.236	16815	5.9	38D	-F	2	P		50	.5	
PURP	06	0217	0230	0233	S17	W04	.240	16815	5.8	16	-B		C				D

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP84203	06	0306+5	0313+3	0344D	S22	E00	.314	16815	6.1	38	-F						
CULG	06	0306U	0316	0336U	S21	W03	.302	16815	5.9	30D	-N		C	0316	150	1.6	T
MANI	06	0311	0313	0321D	S21	W03	.302	16815	5.9	10D	-F	2	P		20	.2	
MANI	06	0334E	0334U	0344D	S25	E07	.381	16815	6.7	10D	-F	2	P		20	.2	
204 CULG	06	0322	0331	0343	S16	W56	.832	16802	1.9	21	?N		P	0331	170	3.1	
			IMP.1 NO : YUNN														
205 ABST	06	0457E	0458	0506D	S23	W04	.337	16815	5.9	9D	-F		P	0458	87	.9	D
GRP84206	06	0606+7	0621+3	0657	S23	E01	.331	16815	6.3	51	1N				200	2.1	JW
ABST	06	0606	0624	0712D	S25	E04	.369	16815	6.6	66D	1N		P	0624	244	2.7	EJ
CATA	06	0610	0615	0615D	S24	W03	.351	16815	6.0	5D	-B	2	P	0615	112	1.2	
ABST	06	0613	0621	0656	S21	W01	.298	16815	6.2	43	-N		C	0621	87	.9	DJW
PURP	06	0622	0622	0635	S22	E02	.316	16815	6.4	13	1N		C				
YUNN	06	0630E		0644D	S23	E01	.331	16815	6.3	14D	1N		P	0632	241	2.6	
WEND	06	0633E		0717	S24	E04	.353	16815	6.6	44D	-N		C	0633	156	1.8	
WEND	06	0633E		0652	S21	W03	.302	16815	6.0	19D	-F		C	0634	106	1.2	
GRP84207	06	0643	0647 0653	0700	S17	W60	.868	16802	1.8	17	-F						S
WEND	06	0643	0647	0700	S19	W57	.845	16802	2.0	17	-F		C	0647	30	.6	DS
WEND	06	0649	0653	0656	S15	W64	.898	16802	1.5	7	-F		C	0653	41	1.0	
208 KHAR	06	0710E		0735D	S19	W90	1.000	16823	29.5	25D	-F		P	0710			H
GRP84209	06	0726+1	0728+1	0739	S21	W05	.309	16815	5.9	13	-F				60	.6	DJ
ABST	06	0726E	0729	0739	S23	W05	.341	16815	5.9	13D	-F		P	0729	87	.9	DJ
KHAR	06	0727	0728	0745D	S21	W05	.309	16815	5.9	18D	-F		P	0730	60	.7	D
WEND	06	0727	0729	0738	S21	W04	.305	16815	6.0	11	-N		C	0729	34	.4	D
GRP84210	06	0750+2	0751+4	0758	S21	W06	.314	16815	5.9	8	-F						DJ
KHAR	06	0750	0751	0754	S21	W10	.340	16815	5.6	4	-F		V	0751			D
ABST	06	0752	0755	0757	S22	W05	.325	16815	6.0	5	-F		C	0755	70	.8	DJ
KHAR	06	0754	0755	0759	S21	W05	.309	16815	6.0	5	-F		V	0755			D
GRP84211	06	0757+3	0759+1	0813	S18	W66	.914	16802	1.4	16	-N						DH
ABST	06	0757	0759	0810	S17	W68	.927	16802	1.2	13	-N		C	0759	87		D
MONT	06	0758	0800	0805D	S20	W66	.915	16802	1.4	7D	-N		C	0800	140		D
WEND	06	0758	0759	0809	S19	W65	.908	16802	1.5	11	-B		C	0759	80		D
KHAR	06	0759	0800	0815D	S17	W66	.913	16802	1.4	16D	-N		V	0800			E
CATA	06	0800	0800	0825	S19	W65	.908	16802	1.5	25	1B	2	C	0800	84	2.1	H
212 KHAR	06	0812	0813	0819D	S19	W90	1.000	16823	29.6	7D	-F		V	0815			H
213 KHAR	06	0854	0855	0858	S19	W90	1.000	16823	29.6	4	-F		V	0855			
GRP84214	06	0900+1	0903+0	0907	S22	W06	.329	16815	5.9	7	-N				100	1.1	DJ
ABST	06	0900	0903	0908	S23	W06	.345	16815	5.9	8	-N		C	0903	122	1.3	DJ
WEND	06	0901	0903	0906	S21	W06	.314	16815	5.9	5	-N		C	0903	94	1.0	
215 KHAR	06	0901E	0903	0912D	S18	W59	.861	16802	2.0	11D	-F		V	0903			D
216 WEND	06	0937	0937	0943	S19	W60	.870	16802	1.9	6	-F		C	0937	53	1.2	
217 KHAR	06	1002E		1017D	S27	E02	.397	16815	6.6	15D	-N		V	1004			
GRP84218	06	1147+6	1155+2	1218	S27	E04	.401	16815	6.8	31	-N						E
KHAR	06	1147	1155	1230D	S27	E02	.397	16815	6.6	43D	1N		P	1158	280	3.1	E
WEND	06	1149	1155	1218	S27	E04	.401	16815	6.8	29	-N		C	1155	168	2.0	
RAMY	06	1153	1157	1217	S27	E04	.401	16815	6.8	24	-F	3	C		74		
GRP84219	06	1229+0	1230+4	1257	S19	W04	.273	16815	6.2	28	-N				150	1.6	E
RAMY	06	1229	1231	1256	S19	W04	.273	16815	6.2	27	-F	3	C		38		
WEND	06	1229	1234	1257	S17	W06	.252	16815	6.1	28	-N		C	1234	150	1.6	
KHAR	06	1230E	1230	1243D	S19	W03	.269	16815	6.3	13D	-N		P	1230	160	1.8	E
220 WEND	06	1336	1344	1349	S15	W68	.926	16802	1.5	13	-F		C	1344	75		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP84221	06	1809+2	1810+1	1829	S17	W70	.939	16802	1.5	20	1N			170		AD
BIGB	06	1809	1811	1829	S14	W69	.932	16802	1.6	20	1F	3 C	1811	170		A
HOLL	06	1809	1810	1812D	S19	W68	.927	16802	1.7	3D	1N	3 C		227		
PALE	06	1809	1810	1821	S17	W71	.944	16802	1.4	12	1N	3 C		161		D
RAMY	06	1811	1811	1831	S17	W72	.950	16802	1.4	20	1N	3 C		138		
222 RAMY	06	1836	1837	1850	S20	W10	.326	16815	6.0	14	-F	3 C		33		
223 RAMY	06	1853	1856	1902	S20	W10	.326	16815	6.0	9	-F	3 C		31		
224 PALE	06	1921	1921	1928	S20	W65	.908	16802	1.9	7	-F	3 C		25		
225 RAMY	06	1931	1931	1944	S21	W17	.406	16815	5.5	13	-N	3 C		119		
226 RAMY	06	1948	1951	1955	S20	W10	.326	16815	6.1	7	-F	3 C		31		
227 VORO	06	2128	2131	2137	S23	W11	.376	16815	6.1	9	-N	C	2131	63	.7	DH
GRP84228	06	2242+2	2246+6	2307	N25	E03	.482	16812	7.2	25	-F			140	1.6	EJ
BIGB	06	2242	2248	2314	N25	E03	.482	16812	7.2	32	-F	3 C	2248	140	1.4	
VORO	06	2243	2246	2305	N25	E00	.480	16812	6.9	22	-F	C	2256	170	1.7	EJ
PALE	06	2244	2252	2307	N26	E03	.497	16812	7.2	23	-F	3 C		33		
229 VORO	07	0003	0006	0010	S21	W78	.976	16802	1.2	7	-F	C	0006	45		E
GRP84230	07	0120+1	0121+4	0144	N25	E03	.481	16812	7.3	24	-F			70	.8	EL
BIGB	07	0120	0125	0145D	N26	E04	.497	16812	7.4	25D	-N	2 P	0125	70	.7	
PALE	07	0120	0121	0144	N25	E03	.481	16812	7.3	24	-F	3 C		48		
VORO	07	0121	0124	0144	N25	E03	.481	16812	7.3	23	-F	C	0127	143	1.6	EL
231 VORO	07	0241	0241	0244	S21	W78	.976	16802	1.3	3	-N	C	0241	63		D
232 TACH	07	0404	0407	0410	S18	W79	.980	16802	1.2	6	1B	C	0407	133		D
233 ABST	07	0540	0542	0545	N11	W39	.662	16808	4.3	5	-F	C	0542	87	1.2	DJ
234 ABST	07	0615	0617	0627	S21	W80	.983	16802	1.3	12	1N	C	0617	87		D
235 ABST	07	0626	0637	0752	N26	W04	.497	16812	7.0	86	1F	P	0637	175	2.1	EJ
236 ABST	07	0653	0655	0700	N13	E16	.390	16830	8.5	7	-F	C	0655	105	1.2	DG
237 ABST	07	0901	0903	0911D	N25	W07	.490	16812	6.9	10D	-N	P	0903	96	1.1	DJ
	07	1026	1104	NO FLARE PATROL												
238 RAMY	07	1122	1128	1140	S22	W02	.318	16815	7.3	18	-N	3 C		18		
GRP84239	07	1220+2	1222+1	1234	S22	W18	.429	16815	6.2	14	-F			30	.3	
HTPR	07	1220	1222	1234	S22	W19	.439	16815	6.1	14	-F	C	1222	20	.2	
RAMY	07	1222	1223	1233	S22	W18	.429	16815	6.2	11	-F	3 C		35		
240 RAMY	07	1316	1317	1321	N23	W08	.465	16812	7.0	5	-F	3 C		24		
GRP84241	07	1318+0	1320+1	1338	S22	W12	.371	16815	6.7	20	-B					
HOLL	07	1318	1321	1338	S22	W11	.363	16815	6.7	20	-B	3 C		104		
RAMY	07	1318	1320	1337	S22	W12	.371	16815	6.7	19	1B	3 C		232		
HTPR	07	1323E		1326D	S23	W12	.385	16815	6.7	3D	-N	C	1323	50	.5	
242 RAMY	07	1340	1343	1349	N23	W08	.465	16812	7.0	9	-F	3 C		25		
243 RAMY	07	1357	1403	1457	N23	W08	.465	16812	7.0	60	-F	3 C		33		
GRP84244	07	1456+0	1457+0	1505	S22	W12	.371	16815	6.7	9	-B			50	.5	
RAMY	07	1456	1457	1505	S22	W13	.380	16815	6.6	9	-B	3 C		53		
HOLL	07	1456	1457	1505	S22	W12	.371	16815	6.7	9	-B	3 C		56		
245 HTPR	07	1600	1601	1609	N13	E12	.349	16830	8.6	9	-N	C	1601	30	.3	
246 HOLL	07	2047	2048	2054	S22	W16	.408	16815	6.7	7	-N	3 C		31		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Apparent (Disk)	Corrected (Sq Deg)	Remarks
GRP84247	07	2309>9	2327+1 2342	0002	S22	W21	.461	16815	6.4	53	1N				250	2.8	
HOLL	07	2309	2328	0005	S23	W20	.461	16815	6.5	56	1N	3	C		373		
BIGB	07	2322	2327	2359	S22	W22	.473	16815	6.3	37	-N	2	C	2327	180	2.0	
MANI	07	2331E	2331U	2357D	S22	W21	.461	16815	6.4	26D	1N	2	P		200	2.4	F
PALE	07	2339E	2342U	2348D	S23	W22	.482	16815	6.3	9D	1F	2	C		218		D
248 BIGB	07	2346	2348	2356	S16	W90	1.000	16802	1.2	10	?N	2	C	2348	60		
			IMP.1 NO : HOLL PALE														
249 MANI	08	0019E	0026U	0032	N12	E06	.285	16830	8.5	13D	-F	2	P		30	.3	
GRP84250	08	0056+0	0056+1	0107	S21	W18	.419	16815	6.7	11	-N				60	.7	
MANI	08	0056E	0056U	0105	S21	W19	.430	16815	6.6	9D	-N	2	P		70	.8	
BIGB	08	0056	0057	0108	S21	W18	.419	16815	6.7	12	-B	2	C	0057	60	.7	
	08	0114	0122	NO FLARE PATROL													
251 PALE	08	0205	0210	0224	S16	E73	.955	16839	13.6	19	-F	3	C				D
252 MANI	08	0419	0420	0424	S21	W20	.441	16815	6.7	5	-F	2	P		40	.5	
	08	0429	0440	NO FLARE PATROL													
253 ABST	08	0530E	0532	0548	S16	E77	.973	16839	14.0	18D	1F		P	0532	87		DJ
GRP84254	08	0535+0	0536 0600	0617	N13	E02	.285	16830	8.4	42	1N				260	2.7	FJK
ABST	08	0535E	0600	0617D	N13	E03	.288	16830	8.5	42D	1N		P	0600	271	2.9	FJK
MANI	08	0535	0536	0544	N12	E02	.269	16830	8.4	9	-F	2	P		15	.2	
CATA	08	0605E	0605	0635	N14	W02	.302	16830	8.1	30D	1N	2	P	0605	253	2.7	
255 ABST	08	0604E	0608	0617D	N25	W18	.550	16812	6.9	13D	-F		P	0608	87	1.1	D
GRP84256	08	0649+1	0650+5	0705	N12	E00	.267	16830	8.3	16	-N				60	.6	E
WEND	08	0649	0655	0708	N12	E00	.267	16830	8.3	19	-N		C	0655	38	.4	
BUCA	08	0650		0700	N13	E01	.284	16830	8.4	10	-F		C	0654	75	.8	E
CATA	08	0650	0650	0705D	N12	W01	.267	16830	8.2	15D	-B	2	P	0650	56	.6	
GRP84257	08	0801	0806+1	0831	N26	W13	.530	16812	7.4	30	-F						D
WEND	08	0801	0806	0824	N26	W13	.530	16812	7.4	23	-F		C	0806	25	.3	
ABST	08	0806E	0807	0837	N26	W13	.530	16812	7.4	31D	-F		P	0807	87	1.1	D
258 MANI	08	0905E	0905U	0915D	N11	E01	.250	16830	8.5	10D	-F	1	V		60	.6	F
259 WEND	08	0954	0958	1017	N25	W19	.558	16812	7.0	23	-N		C	0958	125	1.5	
GRP84260	08	1035	1035	1051	S11	W66	.912	16829	3.5	16	1N						
CATA	08	1035	1035	1055	S12	W66	.912	16829	3.5	20	1N	2	C	1035	84		
WEND	08	1036E		1047	S11	W67	.919	16829	3.4	11D	-F		C	1037	34		
	08	1058	1105	NO FLARE PATROL													
GRP84261	08	1127+0	1128+1	1144	S21	W24	.488	16815	6.7	17	-N				70	.8	D
MONT	08	1127	1129	1144	S21	W22	.464	16815	6.8	17	-F		C	1129	70		D
RAMY	08	1127	1129	1145	S22	W24	.496	16815	6.7	18	-B	3	C		68		D
WEND	08	1128E	1128	1137	S20	W24	.480	16815	6.7	9D	-N		C	1128	82	1.0	
262 RAMY	08	1130	1132	1142	S13	W68	.926	16829	3.4	12	-N	3	C		14		
GRP84263	08	1208+2	1210+0	1216	S22	W24	.496	16815	6.7	8	-F				30	.3	
HTPR	08	1208	1210	1216	S23	W25	.516	16815	6.6	8	-F		C	1210	30	.3	
RAMY	08	1210	1210	1216	S22	W24	.496	16815	6.7	6	-F	3	C		27		
GRP84264	08	1339+2	1341+4 1401	1431	S21	W25	.500	16815	6.7	52	-B				80	.9	
LVOV	08	1339	1341	1359	S20	W24	.480	16815	6.8	20	-F		P	1341	50	.6	DC
RAMY	08	1341	1345	1442	S22	W25	.508	16815	6.7	61	-B	3	C		109		
LVOV	08	1359	1401	1419	S21	W28	.536	16815	6.5	20	1N		P	1401	300	3.6	C
265 HOLL	08	1423	1449	1506	N12	W03	.271	16830	8.4	43	-F	3	C		37		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
266 RAMY	08	1435	1440	1441	S16	E64	.899	16839	13.4	6	-F	3 C		14		
267 RAMY	08	1936	1938	1950	S22	W29	.555	16815	6.6	14	-B	3 C		153		D
GRP84268	08	2352>9	0006+0	0019	S21	W30	.560	16815	6.7	27	-N			100	1.2	DH
VORO	09	0004	0006	0012	S21	W31	.573	16815	6.7	8	-N	C	0006	116	1.5	DH
HOLL	08	2352	2406	0025	S22	W30	.566	16815	6.7	33	-N	3 C		89		
269 HOLL	09	0106	0107	0113	S19	E73	.955	16842	14.5	7	-F	3 C				
270 VORO	09	0126	0127	0136	S12	W09	.215	16819	8.4	10	-F	C	0127	81	.8	DG
271 PALE	09	0137	0138	0141	N12	W08	.297	16830	8.5	4	-F	2 C		26		D
	09	0321	0358	NO FLARE PATROL												
272 HTPR	09	0510E		0530	N12	W11	.323	16830	8.4	20D	-N	C	0511	150	1.5	
GRP84273	09	0527+8	0533 0540+1	0557	S22	W33	.602	16815	6.8	30	-B			80	1.0	E
HTPR	09	0527	0540	0540D	S22	W35	.626	16815	6.6	13D	-B	C	0540	60	.7	E
HTPR	09	0527	0533	0536	S22	W35	.626	16815	6.6	9	-B	C				
TACH	09	0533	0541	0554	S21	W33	.597	16815	6.8	21	-B	C	0541	53	.7	E
CATA	09	0535	0540	0600	S22	W33	.602	16815	6.8	25	-B	2 C	0540	112	1.4	
GRP84274	09	0706+4	0712+3	0729	S20	W36	.627	16815	6.6	23	1B			210	2.7	E
HTPR	09	0706	0712	0732	S22	W36	.637	16815	6.6	26	1B	C	0712	230	2.8	E
MANI	09	0709	0713	0719	S20	W34	.603	16815	6.7	10	-N	2 P		150	2.0	
BUCA	09	0710		0730	S21	W35	.620	16815	6.7	20	-N	C	0715	161	2.0	
CATA	09	0710	0715	0725D	S21	W35	.620	16815	6.7	15D	1B	2 P	0715	197	2.6	
ATHN	09	0711E	0714	0748	S21	W32	.585	16815	6.9	37D	1B	3 V	0714	190	2.5	
HTPR	09	0712	0712	0730	S18	W44	.713	16815	6.0	18	-B	C	0712	50	.7	E
CATA	09	0715	0715	0725D	S17	W42	.687	16815	6.2	10D	1N	2 P	0715	197	2.8	
275 YUNN	09	0816	0823	0851D	S19	E57	.846	16839	13.6		1N	P		193	3.3	
276 YUNN	09	0837	0845	0851	N13	W12	.346	16830	8.5	74	-N	C		113	1.2	
277 HTPR	09	1002	1008	1013	S25	E44	.737	16836	12.7	11	-N	C	1008	60	.8	
278 HTPR	09	1032	1034	1041	S16	E54	.815	16839	13.5	9	-F	C	1034	20	.3	E
279 RAMY	09	1119	1120	1126	S16	W86	.997	16829	3.0	7	-F	3 C				
GRP84280	09	1519+3	1522+4	1539	S20	E52	.802	16839	13.5	20	-N			70	1.2	E
HOLL	09	1519	1523	1544	S19	E51	.790	16839	13.5	25	-N	3 C		67		
HTPR	09	1520	1522	1535	S20	E53	.811	16839	13.6	15	-N	C	1522	70	.9	E
RAMY	09	1522	1526	1539	S20	E52	.802	16839	13.5	17	-N	3 C		63		
281 RAMY	09	1551	1551	1601	S19	E53	.810	16839	13.6	10	-F	3 C		38		
282 HTPR	09	1727		1748D	S17	E46	.733	16839	13.2	21D	-F	C	1731	20	.3	
283 HOLL	09	1944	1949	2005	S31	E28	.619	16828	11.9	21	-F	3 C		58		
GRP84284	09	2015+7	2048 2054+6	2135	S30	E31	.638	16828	12.2	80	1N			280	3.7	
RAMY	09	2015E	2100U	2141D	S31	E31	.646	16828	12.2	86D	1N	3 C		352		
RAMY	09	2015	2048	2050D	S31	E31	.646	16828	12.2	35D	1F	3 C		222		
PALE	09	2022	2054	2056D	S30	E31	.638	16828	12.2	34D	1N	3 C		254		
HOLL	09	2022	2058	2129	S30	E34	.666	16828	12.4	67	1N	3 C		234		
285 HOLL	09	2109	2113	2122	N23	W22	.559	16820	8.2	13	-F	3 C		41		
286 VORO	09	2344	2344	2349	S14	E41	.667	16839	13.1	5	-F	C	2344	116	1.6	DH
287 HOLL	09	2352	2406	0025	S22	W30	.567		7.7	33	-N	3 C		89		
288 VORO	09	2353	2354	0008	S14	E41	.667	16839	13.1	15	-N	C	2354	90	1.2	DH
289 VORO	10	0043	0046	0050	S12	E43	.688	16839	13.3	7	-F	C	0046	108	1.5	D

H - ALPHA SOLAR FLARES

MAY 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP84290	10	0200>9	0204	0235	N22	W35	.676	16812	7.5	35	2N						
YUNN	10	0200	0204	0235	N22	W31	.635	16812	7.8	35	2N		C		450	6.0	
PURP	10	0214	0215	0215D	N23	W39	.722	16812	7.2	1D	1N		P				
291 YUNN	10	0237E	0331	0331D	S14	E40	.655	16839	13.1	54D	?N		P		161	2.2	
		IMP.1 NO : PURP															
GRP84292	10	0510+0	0513 0519+6	0544	S15	E39	.645	16839	13.1	34	-N						
YUNN	10	0510	0519	0548	S14	E40	.655	16839	13.2	38	1N		C		161	2.2	
HTPR	10	0510	0525	0540	S14	E38	.629	16839	13.1	30	-B		C	0525	80	1.0	E
HTPR	10	0510	0513	0516	S17	E37	.627	16839	13.0	6	-F		C	0513	20	.2	
MANI	10	0521E	0524U	0525D	S16	E40	.661	16839	13.2	4D	-N	1	V		60	.8	
CULG	10	0525E	0525E	0529D	S15	E39	.645	16839	13.2	4D	1N		P	0525	230	3.0	FT
293 CULG	10	0637E	0642	0649	S15	E37	.620	16839	13.1	12D	?F		P	0642	200	2.6	T
		IMP.1 NO : PURP YUNN HTPR CATA															
GRP84294	10	0706+4	0707+3	0717	S14	E39	.642	16839	13.2	11	-N						E
HTPR	10	0706	0707	0713	S14	E37	.617	16839	13.1	7	-N		C	0707	30	.4	
PURP	10	0710	0710	0720	S15	E41	.670	16839	13.4	10	-B		C				E
295 ISTA	10	0745E		0754	S14	E38	.629	16839	13.2	9D	-F						BE
GRP84296	10	0803+7	0808>9 0828	0829	S15	E39	.645	16839	13.3	26	-N				30	.4	JK
ABST	10	0803E	0808	0817D	S14	E39	.642	16839	13.3	14D	-N		P	0808	79	1.0	DJ
HTPR	10	0803	0812	0830	S14	E37	.617	16839	13.1	27	-N		C	0812	30	.4	
PURP	10	0806	0823	0826	S15	E40	.658	16839	13.3	20	-B		C				EK
ISTA	10	0810		0823	S13	E42	.677	16839	13.5	13	-F						D
MANI	10	0814E	0816U	0821D	S16	E40	.661	16839	13.3	7D	-F	1	V		30	.4	
PURP	10	0820	0820	0826	S15	E40	.658	16839	13.3	6	-B		C				
HTPR	10	0823	0828	0832	S17	E35	.602	16839	13.0	9	-N		C	0828	50	.6	
ABST	10	0828E	0830	0837D	S16	E36	.611	16839	13.1	9D	-N		P	0830	86	1.2	DJ
GRP84297	10	0853>9	0858+6	0910	S15	E37	.620	16839	13.1	17	-N						E
HTPR	10	0853	0858	0910	S16	E35	.598	16839	13.0	17	-N		C	0858	50	.6	E
PURP	10	0903	0904	0910	S15	E39	.645	16839	13.3	7	-B		C				E
GRP84298	10	0915	0922+1	0934	S15	E35	.594	16839	13.0	19	-N						E
HTPR	10	0915	0923	0933	S17	E35	.602	16839	13.0	18	-N		C	0923	30	.4	E
HTPR	10	0918	0922	0934	S14	E36	.603	16839	13.1	16	-N		C	0922	30	.4	E
GRP84299	10	0955+5	0958+2	1010	S14	E34	.577	16839	13.0	15	-B				100	1.2	E
HTPR	10	0955	0958	1009	S15	E34	.581	16839	13.0	14	-B		C	0958	70	.9	E
MONT	10	0959E	0959	1010	S14	E36	.603	16839	13.1	11D	-N		C	0959	100		
CATA	10	1000	1000	1015	S14	E34	.577	16839	13.0	15	-B	2	C	1000	140	1.8	
GRP84300	10	1132+3	1133+1 1140	1150	S13	E36	.600	16839	13.2	18	-B						
RAMY	10	1117	1133	1134D	S13	E36	.600	16839	13.2	17D	1B	3	C		212		D
ATHN	10	1132	1134	1154	S13	E36	.600	16839	13.2	22	-B	3	V	1134	127	1.7	
HTPR	10	1134		1141	S14	E35	.590	16839	13.1	7	-B		C	1134	80	1.0	E
CATA	10	1135	1140	1150	S14	E36	.603	16839	13.2	15	-B	2	C	1140	140	1.8	
301 ATHN	10	1241	1242	1307	S16	E33	.572	16839	13.0	26	-B	3	V	1242	32	.4	
GRP84302	10	1318+2	1320+1	1330	S15	E33	.567	16839	13.0	12	-N				50	.6	
HTPR	10	1318	1320	1329	S15	E34	.581	16839	13.1	11	-B		C	1320	30	.4	
RAMY	10	1320	1321	1331	S16	E32	.559	16839	13.0	11	-N	3	C		74		
303 HOLL	10	1353	1354	1407	S12	E34	.570	16839	13.1	14	-N	2	C		42		
304 RAMY	10	1503	1507	1530	S15	E31	.541	16839	13.0	27	-N	3	C		39		
GRP84305	10	1757+0	1758+0	1804	S14	E29	.509	16839	12.9	7	-N				100	1.2	
HOLL	10	1757	1758	1804	S14	E30	.523	16839	13.0	7	-N	3	C		91		
RAMY	10	1757	1758	1804	S15	E29	.513	16839	12.9	7	-N	3	C		118		

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MAY 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP84306	10	1952	1953+4	2005	S13	E31	.532	16839	13.2	13	-N			110	1.3	D
HOLL	10	1952	1953	2005	S12	E31	.529	16839	13.2	13	-B	3 C		118		D
PALE	10	1954E	1955U	2005	S13	E31	.532	16839	13.2	11D	-N	2 C		124		
RAMY	10	1956E	1957	2004	S13	E31	.532	16839	13.2	8D	-N	3 C		90		
GRP84307	10	2004+3	2014+7	2043	S25	W58	.864	16815	6.5	39	1N					D
HOLL	10	2004	2020	2055	S25	W57	.856	16815	6.6	51	1N	3 C		263		
RAMY	10	2005	2017	2043D	S25	W58	.864	16815	6.5	38D	2N	3 C		464		
RAMY	10	2005	2014	2016D	S23	W61	.884	16815	6.3	11D	1N	3 C		269		
PALE	10	2007	2021	2034	S26	W58	.866	16815	6.5	27	-F	3 C		77		D
GRP84308	10	2021+1	2023+1	2030	S14	E29	.509	16839	13.0	9	-N			60	.7	
RAMY	10	2021	2023	2029	S15	E28	.500	16839	12.9	8	-B	3 C		68		
HOLL	10	2022	2024	2030	S14	E29	.509	16839	13.0	8	-N	3 C		62		
PALE	10	2022	2024	2030	S14	E29	.509	16839	13.0	8	-N	3 C		44		
GRP84309	11	0059+3	0100+3	0107	S13	E28	.491	16839	13.1	8	-N					
MANI	11	0059	0100	0107	S13	E28	.491	16839	13.1	8	-N	2 P		80	.9	
MITK	11	0059	0103	0113	S13	E27	.477	16839	13.1	14	-N	C	0103			
PURP	11	0102	0103	0107	S13	E29	.505	16839	13.2	5	1B	C				
310 PURP	11	0118	0119	0123	S13	E29	.505	16839	13.2	5	?B	C				
			IMP.1 NO : MITK YUNN PALE													
311 YUNN	11	0323	0324	0330	S22	E66	.918	16844	16.1	7	-N	C		80		
312 YUNN	11	0342	0348	0410	S22	E66	.918	16844	16.1	28	-F	C		32		
GRP84313	11	0410+0	0412+2	0421D	S20	W61	.881	16815	6.6	11	1N			130	2.8	
YUNN	11	0410	0414	0421	S19	W60	.872	16815	6.7	11	1N	C		113	2.4	
MITK	11	0410	0412	0459	S21	W62	.889	16815	6.5	49	1N	C	0412	160	3.5	
GRP84314	11	0515	0525	0528	S14	E25	.453	16839	13.1	13	-N					
CATA	11	0515	0525	0530	S14	E25	.453	16839	13.1	15	-N	2 C	0525	68	.9	
YUNN	11	0518E	0518	0525	S14	E25	.453	16839	13.1	7D	-N	P		80	.9	
GRP84315	11	0642+6	0649	0651	S14	E22	.411	16839	12.9	9	-F					
WEND	11	0642		0651	S14	E22	.411	16839	12.9	9	-N	C	0642	25	.3	
YUNN	11	0648	0649	0650	S14	E22	.411	16839	12.9	2	-F	C		48	.5	
316 YUNN	11	0648	0650	0650D	S12	W61	.875	16816	6.7	2D	-F	P		48	1.0	
317 CATA	11	0755	0755	0800	S14	E21	.397	16839	12.9	5	-B	2 C	0755	34	.4	
318 ABST	11	0840E	0843	0851D	S11	W35	.582	16822	8.7	11D	-F	P	0843	122	1.5	E
319 WEND	11	0916	0918	0924	S12	W68	.926	16816	6.3	8	-N	C	0918	44		
GRP84320	11	0925+1	0926+0	0945	S14	E20	.383	16839	12.9	20	-N					
YUNN	11	0925	0926	0950	S14	E20	.383	16839	12.9	25	-N	P		129	1.4	
WEND	11	0926	0926	0940	S14	E20	.383	16839	12.9	14	-N	C	0926	31	.4	
321 YUNN	11	0944	0947	0950	S22	E64	.905	16844	16.2	6	-N	C		16	.4	
322 YUNN	11	1000	1000	1005	S16	E19	.386	16839	12.8	5	-N	C		64	.7	
GRP84323	11	1047+9	1049 1059	1110	S14	E19	.369	16839	12.9	23	-N					
WEND	11	1047	1049	1112	S14	E19	.369	16839	12.9	25	-N	C	1049	31	.4	
RAMY	11	1056	1059	1108	S15	E19	.377	16839	12.9	12	-N	3 C		46		
GRP84324	11	1145+4	1149+9	1206	S16	E25	.466	16839	13.4	21	-N			40	.5	E
WEND	11	1145	1158	1206	S15	E25	.459	16839	13.4	21	-N	C	1158	37	.4	E
LVOV	11	1147	1153	1207	S18	E26	.492	16839	13.4	20	1N	C	1153	200	2.4	E
RAMY	11	1149	1149	1206	S16	E25	.466	16839	13.4	17	-N	3 C		38		
GRP84325	11	1210+1	1212+1	1222	S15	E17	.351	16839	12.8	12	-N					D
LVOV	11	1210	1212	1217	S16	E17	.360	16839	12.8	7	-N	C	1212	100	1.1	D
WEND	11	1211	1213	1227	S14	E18	.356	16839	12.9	16	-N	C	1213	19	.2	

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MAY 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP84326	11	1253+1	1254+1	1309	S20	W65	.910	16815	6.7	16	-N						
RAMY	11	1253	1255	1313	S21	W64	.904	16815	6.7	20	1N	3	C				
KANZ	11	1254	1254	1305	S20	W65	.910	16815	6.7	11	-N	2					
WEND	11	1254	1254	1309	S20	W65	.910	16815	6.7	15	-N		C	1254	38		
GRP84327	11	1257+2	1300+3 1316	1319	S15	E19	.377	16839	13.0	22	-N						
KANZ	11	1257	1300	1319	S15	E18	.364	16839	12.9	22	-N	2					
RAMY	11	1259	1303	1311	S16	E24	.452	16839	13.3	12	-F	3	C		27		
RAMY	11	1315	1316	1319	S14	E18	.356	16839	12.9	4	-N	3	C		34		
328 LVOV	11	1323	1326	1335	S20	W67	.923	16815	6.5	12	?F		C	1326	150		D
			IMP.1 NO : WEND RAMY KANZ														
329 KANZ	11	1330	1330	1335	S15	E18	.364	16839	12.9	5	-F	2					
GRP84330	11	1346+0	1346	1358	S15	E17	.351	16839	12.8	12	-N						D
KANZ	11	1346	1346	1358	S15	E18	.364	16839	12.9	12	-N	2					D
HUAN	11	1346E		1349D	S15	E17	.351	16839	12.8	3D	-N	1	P	1347	40	.4	
GRP84331	11	1401+0	1402+1	1410	S15	E20	.391	16839	13.1	9	-N						D
RAMY	11	1401	1403	1412	S16	E24	.452	16839	13.4	11	-N	3	C		52		
LVOV	11	1401	1402	1407	S15	E16	.338	16839	12.8	6	1N		C	1402	200	2.2	D
GRP84332	11	1459+5	1500 1511+2	1538	S14	E16	.328	16839	12.8	39	-B						L
RAMY	11	1459	1500	1508	S13	E17	.334	16839	12.9	9	-F	3	C		67		
KANZ	11	1504	1511	1534	S15	E17	.351	16839	12.9	30	-B	2					L
KANZ	11	1511	1519	1542	S14	E10	.253	16839	12.4	31	-N	2					
RAMY	11	1512	1513	1534	S15	E21	.404	16839	13.2	22	-B	3	C		255		D
GRP84333	11	1654+1	1656+1	1704	S15	E16	.338	16839	12.9	10	-B				130	1.4	
KANZ	11	1654	1657	1705	S14	E16	.328	16839	12.9	11	-B	2					
BIGB	11	1655	1656	1704	S15	E16	.338	16839	12.9	9	-B	1	C	1656	100	1.1	
RAMY	11	1655	1656	1704	S15	E16	.338	16839	12.9	9	-B	3	C		173		
	11	1750	1755	NO FLARE PATROL													
334 PALE	11	1827	1828	1837	S15	E23	.432	16839	13.5	10	-N	3	C		31		D
GRP84335	11	1852+2	1853+1	1904	S14	E15	.315	16839	12.9	12	-N				90	.9	
BIGB	11	1852	1853	1859D	S15	E16	.338	16839	13.0	7D	-B	1	P	1853	70	.8	
PALE	11	1854	1854	1904	S14	E15	.315	16839	12.9	10	-N	3	C		110		
336 PALE	11	2108	2109	2120	S23	W69	.936	16815	6.7	12	-N	3	C		25		
337 PALE	11	2130	2157	2202	S22	W74	.961	16815	6.3	32	-F	3	C		45		
338 CULG	11	2300	2310	2317	S13	E16	.320	16839	13.2	17	-N		C	2310	120	1.3	
339 CULG	11	2321	2353U	0026U	S14	E17	.342	16839	13.2	65D	-N		C	2353	140	1.5	
GRP84340	11	2339+3	2342+1	0002	S21	W70	.941	16815	6.7	23	1N				150		
CULG	11	2339	2342	2358	S19	W70	.940	16815	6.7	19	1N		C	2342	200		
PALE	11	2342	2343	0006D	S24	W71	.948	16815	6.7	24D	1B	3	C		113		
341 CULG	12	0012	0016	0026	S20	E53	.813	16844	16.0	14	-F		C	0016	60	1.1	HJ
GRP84342	12	0050+4	0056+1	0108	S22	W72	.952	16815	6.6	18	-F						
CULG	12	0050	0056	0109	S20	W71	.946	16815	6.7	19	1F		C	0056	90		
PALE	12	0054	0057	0106	S24	W73	.958	16815	6.6	12	-F	3	C				
GRP84343	12	0057	0057	0111	S13	E15	.307	16839	13.2	14	-F				80	.8	H
CULG	12	0057	0057	0112	S13	E15	.307	16839	13.2	15	-F		C	0057	110	1.2	H
YUNN	12	0058E	0058	0110	S14	E15	.316	16839	13.2	12D	-N		C		64	.7	
344 CULG	12	0121	0123	0144	S21	E54	.824	16844	16.1	23	-F		C	0123	70	1.3	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP84345	12	0210+1	0220+5	0240	S22	E22	.478	16836	13.7	30	1F					IL
CULG	12	0147	0225U	0240	S22	E22	.478	16836	13.7	53	2F	C	0225	590	6.5	FI
MITK	12	0210	0220	0257	S22	E20	.456	16836	13.6	47	-F	C	0220			DL
PURP	12	0211	0223	0239	S20	E23	.472	16836	13.8	28	1F	C				
346 CULG	12	0225	0227	0230	S14	W69	.933	16841	6.9	5	-F	C	0227	40		
GRP84347	12	0253+4	0254+4	0310	S14	E11	.266	16839	12.9	17	-B					V
CULG	12	0253	0254	0310	S15	E11	.278	16839	12.9	17	1B	C	0254	220	2.2	V
MITK	12	0254	0255	0305	S14	E11	.266	16839	12.9	11	-B	C	0255			D
PURP	12	0257	0258	0312	S13	E11	.255	16839	12.9	15	-N	C				E
348 CULG	12	0333	0336	0343	N17	W68	.940	16812	7.0	10	-F	C	0336	50		
349 CULG	12	0432	0438	0450	S23	E53	.819	16844	16.2	18	?F	C	0438	180	3.3	F
		IMP.1 NO : MITK YUNN PURP														
GRP84350	12	0455+2	0458+1	0507D	N23	W60	.898	16812	7.7	12	1N					G
CULG	12	0455	0459	0545U	N24	W60	.901	16812	7.7	500	2N	C	0459	400	9.0	F
MITK	12	0457	0458	0507	N23	W60	.898	16812	7.7	10	1N	C	0458	120	2.7	EG
351 CULG	12	0523	0525	0528	S15	W85	.995	16815	5.8	5	-F	C	0525	40		
352 CULG	12	0543	0552	0558	S15	W73	.955	16841	6.8	15	-F	C	0552	60		
GRP84353	12	0549+7	0553+6	0604	S14	E10	.255	16839	13.0	15	-N					D
CULG	12	0549	0557	0608	S14	E09	.244	16839	12.9	19	-B	C	0557	200	2.0	
ABST	12	0550	0553	0557	S14	E12	.278	16839	13.1	7	-F	C	0553	87	.9	D
YUNN	12	0552	0558	0604	S14	E09	.244	16839	12.9	12	1N	P		209	2.2	
ABST	12	0553	0557	0610	S15	E08	.248	16839	12.8	17	1N	P	0557	244	2.6	D
CATA	12	0555	0555	0600	S13	E13	.280	16839	13.2	5	-N	2 C	0555	56	.6	
MITK	12	0556	0558	0604	S14	E09	.244	16839	12.9	8	-B	C	0558			D
PEKG	12	0557E	0559	0605	S14	E09	.244	16839	12.9	8D	-N	P	0603	34	.4	E
354 CATA	12	0600	0600	0610	S14	W09	.244	16825	11.6	10	-B	2 C	0600	56	.6	
355 ABST	12	0641E	0650	0718D	N21	W49	.805	16820	8.6	37D	-F	P	0650	122	1.8	E
GRP84356	12	0710+0	0714+0	0735	S21	W84	.993	16815	6.0	25	-F					
WEND	12	0710	0714	0748	S21	W85	.995	16815	5.9	38	-F	C	0714	19		
KANZ	12	0710	0714	0721	S21	W83	.991	16815	6.1	11	-F	1				
357 KANZ	12	0847	0849	0900	S13	E07	.210	16839	12.9	13	-F	3				
GRP84358	12	0954+3	0956+1	1006	S14	E06	.216	16839	12.9	12	-N			90	.9	E
ABST	12	0954	0957	1006D	S14	E05	.209	16839	12.8	12D	-N	P	0957	105	1.2	E
MONT	12	0955	0956	1006	S13	E08	.220	16839	13.0	11	-N	C	0956	200		
WEND	12	0956	0956	1008	S14	E06	.216	16839	12.9	12	-N	C	0956	50	.5	
KANZ	12	0957	0957	1007	S14	E06	.216	16839	12.9	10	-N	3				
YUNN	12	0958E	0958	1003	S16	E06	.246	16839	12.9	5D	-N	C		96	1.0	
CATA	12	1000E	1000	1005	S14	E07	.225	16839	12.9	5D	-N	1 P	1000	56	.6	
GRP84359	12	1013+2	1014+1	1044	S26	W07	.406	16828	11.9	31	-N			110	1.2	G
WEND	12	1013	1014	1111	S27	W06	.417	16828	12.0	58	-N	C	1014	113	1.3	E
MONT	12	1014	1015	1032	S26	W07	.406	16828	11.9	18	1N	C	1015	250		F
KANZ	12	1015	1015	1056	S27	W07	.421	16828	11.9	41	-F	2				
YUNN	12	1016E	1016	1030	S26	W08	.410	16828	11.8	14D	-N	P		80	.9	G
GRP84360	12	1326+1	1326+2	1337	S13	E08	.220	16839	13.2	11	-F					
KANZ	12	1326	1326	1336	S13	E08	.220	16839	13.2	10	-F	2				
HOLL	12	1327	1328	1338	S13	E09	.231	16839	13.2	11	-F	3 C		25		
GRP84361	12	1336+4	1340+1	1348	S21	W80	.984	16815	6.6	12	-F					
KANZ	12	1336	1341	1347	S20	W80	.983	16815	6.6	11	-F	1				
WEND	12	1337	1340	1348	S20	W86	.997	16815	6.1	11	-F	C	1340	19		
HOLL	12	1338	1340	1345	S23	W75	.966	16815	6.9	7	-N	3 C				
RAMY	12	1340	1340	1348	S23	W81	.986	16815	6.5	8	-F	3 C				

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP84362	12	1419+3	1424+1	1434	S13	E08	.220	16839	13.2	15	-N				50	.5	
KANZ	12	1419	1425	1434	S14	E08	.234	16839	13.2	15	-N	2					
WEND	12	1420	1425	1435	S14	E08	.234	16839	13.2	15	-N		C	1425	25	.3	
HOLL	12	1422	1424	1434	S13	E09	.231	16839	13.3	12	-B	3	C		57		
RAMY	12	1422	1424	1430	S13	E09	.231	16839	13.3	8	-B	3	C		48		
GRP84363	12	1528+0	1528+2	1540	S13	E08	.220	16839	13.2	12	-F						L
HOLL	12	1528	1530	1533	S12	E09	.219	16839	13.3	5	-N	3	C		33		
KANZ	12	1528	1528	1547	S14	E08	.234	16839	13.2	19	-F	2					L
364 KANZ	12	1602	1602	1606	S14	E08	.234	16839	13.3	4	-F	2					
GRP84365	12	1626+3	1629+1	1635	S13	E07	.210	16839	13.2	9	-N				30	.3	
HOLL	12	1626	1630	1635	S13	E08	.220	16839	13.3	9	-N	3	C		40		
KANZ	12	1628	1629	1638	S13	E07	.210	16839	13.2	10	-N	2					
RAMY	12	1629	1629	1634	S13	E07	.210	16839	13.2	5	-N	3	C		21		
366 HOLL	12	1736	1739	1746	S13	E09	.231	16839	13.4	10	-B	3	C		38		
GRP84367	12	1827+0	1832+2	1846	S25	W84	.993	16815	6.5	19	-B						
BIGB	12	1827	1834	1852	S24	W90	1.000	16815	6.0	25	1B	2	C	1834	80		
HOLL	12	1827	1832	1839	S26	W79	.981	16815	6.8	12	-N	3	C				
GRP84368	12	1915+1	1918+3	1925	S22	W87	.998	16815	6.3	10	-N						A
BIGB	12	1915	1921	1927	S21	W90	1.000	16815	6.1	12	1N	3	C	1921	90		A
HOLL	12	1916	1918	1922	S24	W85	.995	16815	6.4	6	-F	3	C				
369 CULG	12	2155	2156	2159	S09	W55	.819	16822	8.8	4	-F		C	2156	50	.9	
370 CULG	12	2316E	2324	0010U	S12	W54	.811	16822	8.9	54D	?F		P	2324	210	3.8	F
			IMP.1 NO : HOLL BIGB														
371 PALE	12	2342	2343	0006D	S24	W71	.948		7.7	24D	?B	3	C		113		
			IMP.1 NO : HOLL BIGB CULG VORO														
372 CULG	13	0035	0040	0103	S25	W12	.422	16828	12.1	28	-F		C	0040	100	1.1	L
GRP84373	13	0036+3	0039+1	0047	S27	E45	.758	16844	16.4	11	-F						D
CULG	13	0036	0039	0051	S28	E45	.762	16844	16.4	15	-N		C	0039	80	1.3	
PURP	13	0039	0040	0043	S26	E46	.764	16844	16.5	4	-F		C				D
GRP84374	13	0103+8	0104 0115+3	0133	S15	E06	.233	16839	13.5	30	-F				130	1.3	EK
CULG	13	0103U	0141	0211	S15	E06	.233	16839	13.5	68D	-F		C	0141	90	.9	
PURP	13	0104	0115	0132	S16	E06	.248	16839	13.5	28	-F		C				
PURP	13	0104	0104	0132	S16	E06	.248	16839	13.5	28	-F		C				EK
YUNN	13	0110	0116	0125	S15	E06	.233	16839	13.5	15	-N		P		145	1.5	
VORO	13	0111	0118	0134	S14	E05	.210	16839	13.4	23	-F		C	0118	108	1.1	E
375 CULG	13	0158	0204	0228	S22	W02	.329	16838	12.9	30	-F		C	0204	100	1.0	F
GRP84376	13	0208+4	0211+2	0221	S08	E61	.874	16846	17.7	13	-N				70	1.4	EJ
YUNN	13	0208	0212	0238	S09	E61	.874	16846	17.7	30	-N		C		80	1.7	E
VORO	13	0208	0211	0220	S08	E60	.865	16846	17.6	12	-N		C	0211	90		EJ
CULG	13	0208	0212	0220	S10	E61	.874	16846	17.7	12	-N		C	0212	60	1.2	T
PALE	13	0211	0212	0222	S07	E62	.882	16846	17.7	11	-F	3	C		62		
PURP	13	0212	0213	0222	S08	E61	.879	16846	17.7	10	1B		C				
GRP84377	13	0300>9	0308 0321	0332	S08	E61	.874	16846	17.7	32	-N						EHJ
YUNN	13	0300	0308	0330	S08	E62	.882	16846	17.8	30	-N		C		64	1.4	
VORO	13	0317	0321	0334	S08	E60	.865	16846	17.6	17	1F		C	0321	134		EHJ
378 CULG	13	0351	0402	0416	S23	W03	.347	16838	12.9	25	-F		C	0402	60	.6	F
379 YUNN	13	0503	0505	0512	S11	E59	.857	16846	17.6	9	-N		C		32	.6	
380 CULG	13	0525	0527	0533	S34	W11	.541	16828	12.4	8	-B		C	0527	80	1.0	TJ
381 YUNN	13	0537	0547	0615	S11	E60	.866	16846	17.7	38	-F		C		16	.3	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
382 CULG	13	0545	0545	0552	S13	E01	.176	16839	13.3	7	-N		C	0545	50	.5	
383 YUNN	13	0728	0735	0750	S09	E58	.848	16846	17.7	22	-N		C		80	1.6	
GRP84384	13	0801+4	0804 0813	0835	S09	E58	.848	16846	17.7	34	-F						
KANZ	13	0801	0804	0839	S10	E58	.848	16846	17.7	38	-F	2					
YUNN	13	0805	0813	0830	S09	E58	.848	16846	17.7	25	-N		C		96	1.9	
GRP84385	13	0930+0	0935	1006	S31	W02	.472	16828	13.2	36	-F						
WEND	13	0930		1014	S34	W02	.517	16828	13.2	44	-F		C	0941	125	1.6	
KANZ	13	0930	0935	0957	S32	W03	.488	16828	13.2	27	-F	*					
WEND	13	0932		0957	S26	E01	.392	16828	13.5	25	-F	*	C	0941	81	.9	
	13	1644	1654	NO FLARE PATROL													
386 HOLL	13	1756	1759	1815	S07	E53	.798	16846	17.7	19	-F	3	C		34		
	13	1800	1808	NO FLARE PATROL													
	13	1815	1822	NO FLARE PATROL													
387 CULG	13	2313	2316U	23190	S22	W06	.341	16836	13.5	6D	-F		P	2316	80	.8	
388 CULG	14	0120	0128	0200	S11	E79	.981	16849	20.0	40	-F		C	0128	30		
389 CULG	14	0146	0219	0500U	S24	E04	.367	16843	14.4	194D	?N		C	0219	240	2.6	IF
			IMP.1 NO : MITK YUNN														
390 CULG	14	0206	0216	0234	N16	W16	.416	16837	12.9	28	-F		C	0216	100	1.1	G
391 CULG	14	0345	0348	0356	S07	W38	.617	16825	11.3	11	-N		C	0348	80	1.0	HG
GRP84392	14	0430	0438 0459	0511	S10	E49	.757	16846	17.9	41	-N						
YUNN	14	0430	0438	0502	S10	E48	.745	16846	17.8	32	-N		C		48	.7	E
CULG	14	0447E	0447	0511	S10	E49	.757	16846	17.9	24D	-N		P	0447	40	.6	
ABST	14	0457E	0459	0523	S08	E50	.766	16846	18.0	26D	-N		P	0459	87	1.4	D
393 ABST	14	0509	0510	0516	S16	W17	.363	16839	12.9	7	-F		C	0510	79	.9	DJV
394 HTPR	14	0856		0903D	S09	E45	.709	16846	17.7	7D	-F		C	0857	60	.8	
	14	1000	1042	NO FLARE PATROL													
395 CATA	14	1100	1100	1125	S13	E90	1.000	16850	21.2	25	1N	1	C	1100	56		
396 CATA	14	1140E	1150	1150D	S16	W21	.415	16839	12.9	10D	?N	2	P	1150	281	3.2	
			IMP.1 NO : WEND														
GRP84397	14	1254+4	1258+0	1320	S12	E78	.977	16850	20.4	26	1N				130		D
BOUL	14	1254	1258	1316	S12	E80	.984	16850	20.5	22	1B	3	C		150		D
WEND	14	1258	1258	1323	S12	E77	.973	16850	20.3	25	1N		C	1258	106		
398 WEND	14	1337		1406	S09	E45	.709	16846	17.9	29	-F		C	1345	75	1.1	E
399 WEND	14	1357		1426D	S15	W13	.304	16839	13.6	29D	-F		C	1404	88	1.0	E
400 HOLL	14	1507	1520	1548	S13	W22	.407	16839	13.0	41	-N	3	C		127		
	14	1627	1633	NO FLARE PATROL													
401 HUAN	14	1748		1753	S08	E40	.645	16846	17.7	5	-F	1	C				
402 HUAN	14	1922E		1935	S15	W25	.462	16839	12.9	13D	-N	1	P	1922	60	.7	
	14	2005	2033	NO FLARE PATROL													
	14	2043	2110	NO FLARE PATROL													
403 CULG	14	2126	2127	2139	S24	W02	.363	16843	14.7	13	-F		C	2127	60	.7	

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GRP84404	14	2137+2	2139+1	2149	S15	W26	.475	16839	13.0	12	-N			60	.7	E
CULG	14	2137	2139	2149	S15	W27	.489	16839	12.9	12	-N	C	2139	50	.6	
VORO	14	2139	2140	2148	S16	W25	.468	16839	13.0	9	-N	C	2140	72	.8	E
	14	2214	2215	NO FLARE PATROL												
405 CULG	14	2243	2245	2254	S12	W27	.474	16839	12.9	11	-F	C	2245	50	.6	
GRP84406	14	2307	2310	2326D	S08	E37	.604	16846	17.7	19	-B					E
CULG	14	2307	2310	2326U	S07	E37	.603	16846	17.7	19D	-N	C	2310	50	.6	
PEKG	14	2308E	2308	2308D	S09	E37	.606	16846	17.7		1B	P	2308	189	2.4	E
407 CULG	14	2340	2346	0002	S23	W07	.363	16842	14.5	22	-N	C	2346	80	.9	
408 CULG	14	2350	2352	0001	S17	W20	.411	16839	13.5	11	-N	C	2352	80	.9	
409 CULG	15	0010	0019	0039	S26	W04	.401	16843	14.7	29	-N	C	0019	80	.9	
410 CULG	15	0029	0033	0040	S12	W30	.517	16839	12.8	11	-N	C	0033	20	.2	T
411 VORO	15	0043	0043	0044	S15	W26	.476	16839	13.1	1	-F	C	0043	45	.5	D
GRP84412	15	0100+4	0103+2 0111	0115	S12	W29	.503	16839	12.9	15	1N			230	2.7	JK
YUNN	15	0100	0104	0115	S12	W29	.503	16839	12.9	15	1N	C		241	2.8	
PEKG	15	0101	0103	0113	S12	W29	.503	16839	12.9	12	1B	P	0106	231	2.8	E
VORO	15	0103E	0104	0118	S15	W26	.476	16839	13.1	15D	1F	C	0104	251	2.7	CDJ
PURP	15	0104	0105	0112	S10	W29	.496	16839	12.9	8	1B	C				K
CULG	15	0109E	0111	0121	S12	W30	.517	16839	12.8	12D	-B	C	0111	80	1.0	T
GRP84413	15	0127+2	0130+0	0142	S12	W27	.474	16839	13.0	15	-N			50	.6	
CULG	15	0127	0130	0149	S12	W28	.489	16839	13.0	22	-N	C	0130	60	.7	T
YUNN	15	0129	0130	0134	S12	W27	.474	16839	13.0	5	-N	C		48	.6	
GRP84414	15	0201+8	0210+3	0221	N14	E59	.873	16851	19.5	20	-N			100	2.0	E
PURP	15	0201	0213	0239	N15	E57	.858	16851	19.4	38	1F	C				
CULG	15	0206	0210	0224	N14	E58	.865	16851	19.4	18	-N	C	0210	80	1.6	
VORO	15	0208	0211	0218	N16	E60	.904	16851	19.6	10	1F	C	0211	143		E
YUNN	15	0209	0210	0215	N14	E60	.881	16851	19.6	6	-N	C		80	1.7	
415 CULG	15	0221	0223	0240	S13	W30	.521	16839	12.8	19	-F	C	0223	130	1.6	TSF
416 CULG	15	0253	0256	0311	S19	E07	.304	16844	15.6	18	-F	C	0256	80	.8	
417 CULG	15	0334	0341	0347	S12	W31	.531	16839	12.8	13	-F	C	0341	40	.5	T
418 CULG	15	0400	0405	0421	S12	W30	.517	16839	12.9	21	-N	C	0405	50	.6	TH
419 CULG	15	0409	0416	0426	S10	E31	.525	16846	17.5	17	-F	C	0416	40	.6	
GRP84420	15	0428+5	0436+2	0445	S12	W32	.545	16839	12.8	17	-N			80	1.0	DY
CULG	15	0428	0436	0448	S12	W32	.545	16839	12.8	20	-N	C	0436	60	.7	T
TACH	15	0433	0438	0442	S12	W32	.545	16839	12.8	9	-B	C	0438	97	1.1	DY
421 YUNN	15	0457	0501	0508	S09	E33	.551	16846	17.7	11	-N	C		80	1.0	
422 YUNN	15	0501E	0501	0502	S16	W30	.536	16839	13.0	1D	-N	C		64	.6	
GRP84423	15	0705+0	0708+0	0719	S11	W33	.556	16839	12.8	14	-N			70	.8	D
WEND	15	0705	0708	0724	S11	W33	.556	16839	12.8	19	-N	C	0708	56	.7	D
YUNN	15	0705	0708	0711	S11	W32	.542	16839	12.9	6	-N	C		80	1.0	
PURP	15	0705	0719	0719D	S11	W33	.556	16839	12.8	14D	-N	P				D
GRP84424	15	0727E	0729+1	0741	S12	W34	.573	16839	12.8	14	-N			80	1.0	H
YUNN	15	0717	0730	0730D	S12	W34	.573	16839	12.8	13D	-N	P		64	.8	
WEND	15	0727	0729	0741	S13	W34	.576	16839	12.8	14	-N	C	0729	100	1.3	H
	15	1050	1227	NO FLARE PATROL												
425 ABST	15	1228E	1230	1251D	S19	W21	.442	16839	13.9	23D	-F	P	1230	87	1.0	D

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
426 ABST	15	1235	1241	1251D	S13	W36	.603	16839	12.8	16D	1N		P	1241	262	3.3	F
427 BIGB	15	1542	1550	1621	S12	E54	.812	16849	19.7	39	?N	2	C	1550	130	2.3	
			IMP.1 NO : HOLL														
GRP84428	15	1622+3	1625	1716	N15	E51	.804	16851	19.5	54	-F						
			1634														
HOLL	15	1622	1625	1715	N16	E50	.797	16851	19.4	53	-N	3	C		41		
BIGB	15	1625	1634	1717	N15	E53	.823	16851	19.7	52	-F	2	C	1634	60	1.0	
429 BIGB	15	1626	1629	1652	S35	E90	1.000	16855	22.4	26	?B	2	C	1629	60		
			IMP.1 NO : HOLL														
430 PALE	15	2002E	2002U	2019D	S07	E25	.427	16846	17.7	17D	-F	3	C		40		D
431 PALE	15	2053E	2053U	2123	S12	E65	.906	16850	20.7	30D	?B	2	C		182		D
			IMP.1 NO : BIGB														
432 VORO	15	2229	2235	2254	S10	E58	.848	16850	20.3	25	-N		C	2235	45	.8	DJ
433 CULG	15	2325	2328	2338	S12	W40	.652	16839	13.0	13	-N		C	2328	40	.5	
GRP84434	15	2353+3	2357+5	0029	S09	E23	.402	16846	17.7	36	-N				120	1.3	EU
CULG	15	2353	2402	0029	S10	E23	.256	16846	17.7	36	-N		C	2402	120	1.3	U
BIGB	15	2355	2357	0031	S09	E22	.387	16846	17.6	36	-B	1	C	2357	100	1.1	
VORO	15	2356	2358	0026	S08	E23	.399	16846	17.7	30	1F		C	2358	403	4.1	E
GRP84435	16	0005+3	0010+1	0028	S16	E66	.915	16850	21.0	23	1N				180		K
			0018														
CULG	16	0005	0010	0035	S18	E69	.935	16850	21.2	30	2B		C	0010	280	6.1	F
BIGB	16	0007	0011	0028	S16	E65	.908	16850	20.9	21	1N	2	C	0011	140		
VORO	16	0008	0010	0027	S15	E68	.928	16850	21.1	19	1N		C	0014	233		EK
YUNN	16	0016E	0018	0025	S17	E61	.879	16850	20.6	9D	1N		C		113	2.4	
436 BIGB	16	0104	0108	0126D	S13	W90	1.000	16822	9.3	22D	-N	2	P	0108	40		
GRP84437	16	0118+1	0119+6	0135	S08	E21	.368	16846	17.6	17	-F						E
VORO	16	0118E	0119	0127D	S08	E23	.399	16846	17.8	9D	-N		V				E
PALE	16	0119	0125	0135	S08	E20	.352	16846	17.6	16	-F	3	C		47		
GRP84438	16	0123	0125+3	0210	S13	E64	.900	16850	20.9	47	-F						D
PALE	16	0123	0125	0210	S11	E61	.875	16850	20.6	47	-F	*	C		33		
VORO	16	0127E	0128	0135D	S15	E68	.928	16850	21.2	8D	-N	*	V				D
GRP84439	16	0125+8	0135+3	0148	S13	W42	.680	16839	12.9	23	1B						EHV
YUNN	16	0125E	0136	0137D	S11	W42	.676	16839	12.9	12D	1B		C		353	4.9	
CULG	16	0133	0135	0148	S13	W43	.692	16839	12.8	15	2B		C	0135	500	7.0	VH
VORO	16	0135E	0138	0145D	S15	W41	.673	16839	13.0	10D	1N		V				EH
440 PALE	16	0248	0251	0318	S07	E21	.365	16846	17.7	30	-F	3	C		34		
441 PALE	16	0306	0306	0329	S10	E52	.790	16850	20.0	23	-F	3	C		42		
442 CULG	16	0359	0414	0432	S27	W09	.437	16843	15.5	33	-F		C	0414	120	1.3	
443 ABST	16	0546	0551	0615D	N14	E44	.727	16851	19.5	29D	-F		P	0551	70	1.0	D
444 YUNN	16	0912E	0912	0930	S12	E50	.771	16850	20.1	18D	-N		P		80	1.3	
GRP84445	16	1338E	1341	1410D	N16	E37	.656	16851	19.3	32	-N						
			1348														
HOLL	16	1338E	1341	1450	N16	E36	.645	16851	19.3	72D	-N	3	C		151		
RAMY	16	1343E	1348U	1410	N16	E38	.668	16851	19.4	27D	-N	3	C		126		
446 BIGB	16	1431	1432	1437	S30	E90	1.000	16855	23.4	6	?B	2	C	1432	60		
			IMP.1 NO : RAMY HOLL														
447 HOLL	16	1521	1538	1541	N17	E36	.650	16851	19.3	20	-F	3	C		50		
448 RAMY	16	1618	1631	1638	N16	E37	.656	16851	19.5	20	-F	3	C		52		

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MAY 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Apper (Disk)	Corr (Sq Deg)	Remarks
GRP84449	16	1800+0	1801+1	1813	S21	W04	.323	16844	16.5	13	-N				70	.7	
BIGB	16	1800	1802	1815	S22	W05	.342	16844	16.4	15	-N	3	C	1802	60	.6	
HOLL	16	1800	1801	1811	S21	W03	.320	16844	16.5	11	-N	3	C		79		
450 BIGB	16	1816	1825	1903	S28	E90	1.000	16855	23.5	47	?B	3	C	1825	60		
			IMP.1 NO : HOLL														
451 HOLL	16	1904	1904	1909	S12	E52	.792	16850	20.7	5	-F	3	C		18		
452 HOLL	16	1928	1931	1935	N17	E34	.627	16851	19.4	7	-F	3	C		59		
453 HOLL	16	1929	1932	1937	S18	W44	.717	16839	13.5	8	-F	3	C		21		
454 BIGB	16	1937	1948	2009	S28	E90	1.000	16855	23.6	32	?B	3	C	1948	120		
			IMP.1 NO : HOLL														
455 HOLL	16	2028E	2031U	2034D	N17	E34	.627	16851	19.4	6D	-F	3	C		70		
456 CULG	16	2106E	2106E	2121	S16	W48	.756	16839	13.3	15D	-N		P	2106	100	1.5	B
457 CULG	16	2120	2127	2136	N28	E48	.822	16852	20.5	16	-F		C	2127	100	1.8	
GRP84458	16	2207+7	2218+1	2258	N15	E35	.627	16851	19.5	51	-N				130	1.7	J
HOLL	16	2207	2218	2244	N17	E34	.627	16851	19.5	37	-N	*	C		49		
CULG	16	2214	2219	2258	N13	E35	.617	16851	19.6	44	1N	*	C	2219	180	2.3	JT
BIGB	16	2223E	2223U	2259	N15	E36	.639	16851	19.6	36D	-N	*	P	2223	130	1.7	
GRP84459	16	2208+0	2211+1	2357	S14	E47	.741	16850	20.4	109	1B						HV
			2233+1														
CULG	16	2208	2233	2357U	S14	E44	.706	16850	20.2	109D	2B		C	2233	540	8.1	VFH
HOLL	16	2208	2234	2336	S11	E43	.688	16850	20.1	88	1B	3	C		397		
HOLL	16	2208	2212	2214D	S12	E50	.771	16850	20.7	6D	-B	3	C		60		D
HOLL	16	2208	2211U	2211	S11	E47	.736	16850	20.4	3	-B	3	C		53		
BIGB	16	2229	2233	0005	S14	E48	.752	16850	20.5	96	1B	3	C	2233	230	3.5	
PEKG	16	2306E	2306	2306D	S15	E48	.754	16850	20.6		1B		P	2306	294	4.6	E
BIGB	16	2315	2324	0001	S15	E50	.775	16850	20.7	46	1F	2	C	2324	150	2.4	
GRP84460	16	2220	2223	2235	N22	E50	.816	16852	20.7	15	-N						
CULG	16	2220	2223	2232	N23	E48	.802	16852	20.5	12	-F		C	2223	60	1.0	
MANI	16	2233E	2235U	2237D	N21	E53	.838	16852	20.9	4D	-B	1	V		90	1.7	
461 BIGB	16	2240	2244	2254	S28	E90	1.000	16855	23.7	14	?B	3	C	2244	100		
			IMP.1 NO : HOLL CULG														
462 HOLL	16	2315	2322	2333	N16	E31	.585	16851	19.3	18	-N	3	C		27		
463 CULG	16	2352	2401	0034	S21	E33	.602	16849	19.5	42	-F		C	2401	110	1.4	F
GRP84464	17	0006+3	0013+2	0057	S15	E50	.775	16850	20.8	51	1N						K
			0049														
CULG	17	0006	0013	0028	S16	E50	.777	16850	20.8	22	1N		C	0013	140	2.1	T
PURP	17	0009	0015	0118	S15	E51	.786	16850	20.8	69	1B		C				K
HOLL	17	0049	0049	0057	S12	E47	.737	16850	20.6	8	-F	3	C		19		
465 PURP	17	0009	0015	0118	N15	E33	.602	16851	19.5	69	?F		C				
			IMP.1 NO : BIGB CULG HOLL YUNN VORO														
466 CULG	17	0013	0017	0023	S11	W53	.801	16839	13.0	10	-F		C	0017	70	1.3	
467 BIGB	17	0015	0019	0042	S25	E90	1.000	16860	23.8	27	?B	3	C	0019	80		
			IMP.1 NO : CULG HOLL YUNN PURP VORO														
468 CULG	17	0021	0023	0028	S08	W18	.322		15.7	7	-F		C	0023	50	.6	
GRP84469	17	0102+3	0109+2	0133	N25	E47	.800	16852	20.6	31	1F						EG
CULG	17	0102	0109	0139	N25	E46	.792	16852	20.5	37	-F		C	0109	80	1.4	
PURP	17	0105	0111	0119	N24	E49	.814	16852	20.7	14	1F		C				G
VORO	17	0108E		0133	N28	E47	.814	16852	20.6	25D	1F		C	0111	188	3.2	E

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Apper (Disk)	Corr (Sq Deg)	Remarks
GRP84470	17	0143+1	0145+1	0153	S14	E48	.752	16850	20.7	10	1N		C		170	2.6	EHJ
CULG	17	0143	0146	0201	S14	E49	.763	16850	20.7	18	1N		C	0146	160	2.4	T
VORO	17	0144	0145	0153	S13	E48	.750	16850	20.7	9	1N		C	0145	179	2.8	EHJ
YUNN	17	0144	0145	0152	S15	E47	.743	16850	20.6	8	1N		C		177	2.7	
GRP84471	17	0200+7	0214+4	0237	N15	E32	.590	16851	19.5	37	1N				240	3.0	EJ
YUNN	17	0200	0214	0240	N14	E32	.584	16851	19.5	40	-B		C		161	2.0	
VORO	17	0207	0218	0233	N17	E32	.603	16851	19.5	26	1N		C	0218	323	4.1	EJ
GRP84472	17	0218	0231	0308	S08	E08	.169	16846	17.7	50	-F						
CULG	17	0218	0231	0308	S08	E08	.169	16846	17.7	50	-F		C	0231	50	.5	
473 CULG	17	0232	0241	0301	S16	W48	.756	16839	13.5	29	-F		C	0241	60	.9	
474 CULG	17	0238	0321	0414	S21	W29	.556	16842	14.9	96	-F		C	0321	100	1.3	
475 MANI	17	0302E	0303U	0304D	N15	E33	.602	16851	19.6	2D	-N	1	V		20	.3	
476 CULG	17	0315	0320	0332	S16	W50	.777	16839	13.4	17	-F		C	0320	60	1.0	
477 CULG	17	0359	0425	0432	S11	W55	.821	16839	13.0	33	?N		C	0425	140	2.5	FKT
			IMP.1 NO : PURP														
478 MANI	17	0443E	0447U	0452D	N09	E51	.789	16854	21.0	9D	-N	1	V		30	.5	
GRP84479	17	0443	0505	0718	S15	E47	.743	16850	20.7	155	1F						JK
			0523														
CULG	17	0443	0505	0556	S18	E60	.873	16850	21.7	73	1F	*	C	0505	200	3.6	F
ABST	17	0516E	0523	0718	S15	E47	.743	16850	20.7	122D	-F	*	P	0523	96	1.5	DJK
WEND	17	0537E		0726	S14	E43	.695	16850	20.5	109D	1F	*	C	0537	194	2.8	
480 CULG	17	0513	0518	0526	N22	E43	.750	16852	20.4	13	-F		C	0518	40	.6	
GRP84481	17	0538+0	0554+1	0629	S16	W52	.798	16839	13.3	51	2N				330	5.5	FJK
CULG	17	0538	0555	0635	S10	W52	.790	16839	13.3	57	2B		C	0555	400	6.4	K
ABST	17	0538	0554	0623	S16	W52	.798	16839	13.3	45	1N		C	0554	262	4.4	FJ
WEND	17	0608E		0629	S16	W51	.788	16839	13.4	21D	1N		C	0608	160	2.7	
482 WEND	17	0608E		0623	N15	E29	.553	16851	19.4	15D	-F		C	0615	88	1.1	
GRP84483	17	0720+6	0734+7	0806	N15	E28	.541	16851	19.4	46	1N				280	3.3	EJ
WEND	17	0720	0735	0818	N15	E29	.553	16851	19.5	58	1B		C	0735	370	4.5	
ABST	17	0726	0735	0914	N16	E27	.537	16851	19.3	108	1F		C	0735	314	3.8	EJ
KHAR	17	0729E	0734	0813D	N16	E28	.549	16851	19.4	44D	1N		P	0734	190	2.3	E
ATHN	17	0734	0741	0754	N15	E28	.541	16851	19.4	20	-B	3	V	0741	159	1.9	
YUNN	17	0737	0739	0800	N14	E28	.534	16851	19.4	23	1N		C		337	4.1	
PURP	17	0737	0740	0747	N13	E27	.514	16851	19.3	10	1B		C				
ISTA	17	0737E		0804	N16	E30	.573	16851	19.6	27D	1B						E
484 WEND	17	0806	0808	0818	S19	W52	.803	16839	13.4	12	-F		C	0808	68	1.2	E
485 WEND	17	0856E		0915D	S14	E42	.683	16850	20.5	19D	-F		C	0900	125	1.8	
GRP84486	17	0903+1	0903+3	0915	N16	E27	.537	16851	19.4	12	-F				100	1.2	
KHAR	17	0903E	0903	0909D	N17	E26	.533	16851	19.3	6D	-F	*	P	0903	70	.8	
WEND	17	0904	0906	0915	N15	E28	.541	16851	19.5	11	-F	*	C	0906	132	1.6	
487 KHAR	17	0905E	0905	0946D	S24	E90	1.000	16860	24.1	41D	-F		V	0905			DH
488 KHAR	17	0917		0924D	S14	E44	.707	16850	20.7	7D	-F		V	0917			
489 KHAR	17	0946		1006D	S14	E44	.707	16850	20.7	20D	-F		V	0959			
GRP84490	17	1006+1	1014+1	1119	N26	E41	.752	16852	20.5	73	2B				640	9.7	GHIU
			1026														
KHAR	17	1006	1014	1125D	N28	E41	.764	16852	20.5	79D	1N		P	1012	300	4.8	EH
WEND	17	1007E	1015	1114	N26	E41	.752	16852	20.5	67D	2B		C	1015	640	9.7	IU
YUNN	17	1007	1015	1052	N25	E41	.747	16852	20.5	45	2B		C		643	9.5	G
RAMY	17	1024E	1026U	1123	N26	E41	.752	16852	20.5	59D	2N	3	C		535		D

H - ALPHA SOLAR FLARES

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
491 ATHN	17	1015E	1018	1058	N17	E29	.568	16851	19.6	43D	-B	3 V	1018	128	1.6	
492 KHAR	17	1039	1040	1053D	S24	E90	1.000	16860	24.2	14D	-N	V	1040			DH
GRP84493	17	1042+9	1051+5	1112	S17	W54	.819	16839	13.4	30	-N					
KHAR	17	1042E	1056	1111D	S19	W53	.813	16839	13.5	29D	-F	P	1056	80	1.3	D
WEND	17	1050E	1055	1114D	S17	W54	.819	16839	13.4	24D	2N	C	1055	360	6.6	
KHAR	17	1050E	1051	1101D	S16	W55	.827	16839	13.3	11D	-F	P	1054	60	.9	D
RAMY	17	1051	1053	1104	S16	W56	.836	16839	13.3	13	-N	3 C		26		
YUNN	17	1057E	1057	1112	S18	W51	.791	16839	13.6	15D	-N	P		48	.8	
494 KHAR	17	1207E		1207D	S08	E46	.721	16850	21.0		-F	P	1207	70	1.1	E
GRP84495	17	1324	1325+2	1331	N16	E25	.513	16851	19.4	7	-F					E
RAMY	17	1324	1327	1331	N16	E25	.513	16851	19.4	7	-N	3 C		38		
KHAR	17	1325E	1325	1329D	N17	E25	.521	16851	19.4	4D	-F	P	1325	110	1.3	E
496 BIGB	17	1507	1515	1535	S25	E90	1.000	16860	24.4	28	?B	3 C	1515	80		
			IMP.1 NO : RAMY HOLL													
497 HOLL	17	1509	1513	1516	N15	E23	.480	16851	19.4	7	-F	3 C		31		
498 RAMY	17	1733	1734	1738D	N24	E52	.839	16853	21.6	5D	-F	3 C		12		
499 HOLL	17	2022E	2025	2045	S16	W61	.879	16839	13.3	23D	-F	2 C		38		
GRP84500	17	2134+2	2137+2	2211	N16	E21	.466	16851	19.5	37	-F			80	.9	EJ
VORO	17	2134	2139	2159	N16	E23	.489	16851	19.6	25	-N	C	2139	108	1.2	EJ
PALE	17	2135E	2137U	2214D	N16	E21	.466	16851	19.5	39D	-F	3 C		58		
RAMY	17	2136	2137	2211D	N16	E20	.455	16851	19.4	35D	-F	3 C		56		
HOLL	17	2138E	2158U	2158D	N17	E22	.487	16851	19.6	20D	-F	2 C		32		
501 HOLL	18	0006E	0008U	0012	S14	E35	.595	16850	20.6	6D	-F	2 C		25		
GRP84502	18	0018+6	0026+2 0038	0042	S13	E20	.382	16849	19.5	24	-N			110	1.2	EGJ
YUNN	18	0018E	0028	0030	S13	E20	.382	16849	19.5	12D	-N	C		113	1.3	G
VORO	18	0023	0027	0044	S10	E20	.363	16849	19.5	21	1F	C	0031	197	2.2	EGJ
BIGB	18	0024	0026	0048D	S13	E21	.396	16849	19.6	24D	-N	3 P	0026	80	.9	
HOLL	18	0031E	0038U	0040D	S13	E21	.396	16849	19.6	9D	-F	2 C		88		
503 VORO	18	0040	0041	0044	S23	E90	1.000	16860	24.8	4	-F	C	0041	99		D
GRP84504	18	0103+2	0108+2 0116+4	0127	N16	E19	.442	16851	19.5	24	2N			560	6.3	H
YUNN	18	0103	0108	0125	N14	E19	.422	16851	19.5	22	2B	C		578	6.6	
VORO	18	0105	0110	0135	N17	E22	.486	16851	19.7	30	2F	C	0110	529	5.9	EH
PURP	18	0105	0109	0121	N13	E18	.400	16851	19.4	16	2B	C	0109	566	6.2	
MANI	18	0116E	0116U	0118D	N16	E19	.442	16851	19.5	2D	-F	2 P		100	1.1	F
HOLL	18	0118E	0120U	0129D	N17	E16	.422	16851	19.3	11D	1B	2 C		320		
505 ABST	18	0506E	0513	0515D	N16	E17	.421	16851	19.5	9D	-F	P	0513	87	1.0	D
506 MITK	18	0520	0529	0543	N27	E71	.963	16858	23.5	23	?N	C	0529	100		
			IMP.1 NO : PURP YUNN													
507 ABST	18	0549	0553	0612D	N25	E29	.632	16852	20.4	23D	?N	P	0553	166	2.2	EGJ
			IMP.1 NO : PURP YUNN MITK													
508 ABST	18	0550	0551	0556	S24	E85	.995	16860	24.6	6	?N	C	0551	105		DV
			IMP.1 NO : PURP YUNN MITK													
509 KHAR	18	0718E	0718	0725D	N16	E66	.925	16859	23.3	7D	-F	P	0718	60		E
510 KHAR	18	0725E		0725D	S14	W69	.934	16839	13.1		-F	P				
511 ATHN	18	0745E	0749	0815	N34	E60	.920		22.8	30D	-B	3 V	0749	80	1.9	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP84512	18	0818	0820+1 0831	0853	S14	E32	.555	16850	20.7	35	-N			70	.8	J
MANI	18	0818	0820	0830D	S14	E32	.555	16850	20.7	12D	-F	2 P		60	.7	F
ATHN	18	0820E	0821	0853	S08	E31	.521	16850	20.7	33D	-B	3 V	0821	80	1.0	
ABST	18	0824E	0831	0832D	S14	E34	.581	16850	20.9	8D	-N	P	0831	131	1.7	EJ
513 ABST	18	0959	1000	1004D	S06	E90	1.000	16862	25.2	5D	-F	P	1000	44		ADV
	18	1025	1035	NO FLARE PATROL												
514 CATA	18	1040	1045	1045D	S13	E29	.509	16850	20.6	5D	-F	2 P	1045	112	1.3	
	18	1136	1140	NO FLARE PATROL												
515 RAMY	18	1254	1257	1305	S21	E77	.974	16860	24.3	11	-N	3 C				
516 RAMY	18	1345	1354	1404	S22	E78	.978	16860	24.4	19	-F	3 C				
	18	1405	1409	NO FLARE PATROL												
517 BIGB	18	1446	1454	1511	S09	E90	1.000	16862	25.4	25	?B	3 C	1454	50		
			IMP.1 NO : RAMY													
GRP84518	18	1618	1619	1650	N23	E38	.705	16853	21.5	32	-N			60	.8	
BIGB	18	1618	1619	1653	N23	E39	.715	16853	21.6	35	-N	3 C	1619	60	.8	
HOLL	18	1624E	1624U	1647	N24	E37	.702	16853	21.5	23D	-N	3 C		69		
519 HOLL	18	1847	1849	1857	N17	E59	.877	16859	23.2	10	-F	3 C		29		
520 HOLL	18	1856	1858	1907	S35	E53	.857	16855	22.8	11	-F	3 C		17		
GRP84521	18	1903+0	1907+1	1920	S23	E73	.959	16860	24.3	17	-N					
PALE	18	1903	1908	1922	S23	E74	.963	16860	24.3	19	-N	3 C				
HOLL	18	1903	1907	1918	S23	E73	.959	16860	24.3	15	-N	3 C				
GRP84522	18	1903+0	1903+2	1917	S18	W73	.957	16839	13.3	14	-F					
PALE	18	1903	1905	1916	S18	W73	.957	16839	13.3	13	-F	3 C				
HOLL	18	1903	1903	1917	S18	W73	.957	16839	13.3	14	-N	3 C				
523 HOLL	18	1924	1937	2009	N17	E58	.869	16859	23.2	45	-N	3 C		43		
524 HOLL	18	2020	2021	2026	N13	E00	.265	16851	18.8	6	-N	3 C		40		
525 HOLL	18	2021	2024	2028	N17	E57	.861	16859	23.1	7	-F	3 C		29		
526 HOLL	18	2041	2045	2051	S14	E25	.459	16850	20.7	10	-F	3 C		52		
527 CULG	18	2208	2213U	2230U	S09	W19	.343	16846	17.5	22D	-F	P	2213	90	1.0	
	18	2220	2221	NO FLARE PATROL												
528 CULG	18	2245	2246	2252	N13	E02	.267	16851	19.1	7	-N	C	2246	80	.8	
529 PALE	18	2343	2348	2359	N17	E57	.861	16859	23.3	16	-F	3 C		18		
GRP84530	19	0040+5	0045+0	0054	S15	E22	.425	16850	20.7	14	-F			80	.9	
CULG	19	0040	0045	0056	S15	E23	.439	16850	20.8	16	-N	C	0045	110	1.2	F
PALE	19	0045	0045	0051	S15	E22	.425	16850	20.7	6	-F	3 C		59		D
GRP84531	19	0123+8	0132+1	0138	S05	W21	.361	16846	17.5	15	-F			50	.5	D
CULG	19	0123	0132	0141	S06	W21	.363	16846	17.5	18	-F	C	0132	60	.7	T
PEKG	19	0131	0133	0135	S05	W21	.361	16846	17.5	4	-N	C	0133	42	.5	D
532 CULG	19	0141U	0201	0206	N15	E55	.839	16859	23.2	25D	-F	C	0201	100	1.7	H
533 CULG	19	0223	0229	0310U	N16	E08	.340	16851	19.7	47D	-F	C	0229	120	1.2	F
534 CULG	19	0226	0233	0248	S12	E20	.376	16850	20.6	22	-F	C	0233	60	.7	
535 CULG	19	0244	0246	0302	N25	E54	.857	16858	23.2	18	?F	C	0246	120	2.2	
			IMP.1 NO : PALE													

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
536 CULG	19	0310	0312	0339U	N14	E55	.837	16859	23.3	29D	-F	C	0312	80	1.4	
537 CULG	19	0324	0330	0350	S20	W60	.876	16842	14.6	26	?N	C	0330	130	2.6	
			IMP.1 NO : PALE MITK													
538 CULG	19	0341	0350	0358	N16	E08	.340	16851	19.8	17	-F	C	0350	120	1.2	F
539 CULG	19	0400	0409	0425	S15	E19	.386	16850	20.6	25	-F	C	0409	180	2.0	F
540 CULG	19	0400	0407	0412	N12	W01	.246	16851	19.1	12	-N	C	0407	70	.7	
541 CULG	19	0404	0405	0411	N15	E54	.830	16859	23.2	7	-F	C	0405	80	1.4	
542 CULG	19	0411	0415	0422	N07	E36	.603	16857	21.9	11	-F	C	0415	80	1.0	
543 CULG	19	0437U	0440	0447	N14	E54	.828	16859	23.2	10D	-F	C	0440	100	1.8	
GRP84544	19	0439>9	0501+1	0515	S10	W24	.424	16846	17.4	36	-F			90	1.0	D
CULG	19	0439	0502	0516	S06	W23	.395	16846	17.5	37	-F	C	0502	100	1.1	T
ABST	19	0459	0501	0513	S14	W25	.460	16846	17.3	14	-F	C	0501	87	1.0	D
545 CULG	19	0509	0516U	0529	N14	E54	.828	16859	23.3	20	-F	C	0516	100	1.7	
546 CULG	19	0511	0511	0516	S13	E15	.315	16850	20.3	5	-F	C	0511	70	.7	
547 CULG	19	0514	0515	0526	S35	E50	.836	16855	23.0	12	-F	C	0515	10	.2	
GRP84548	19	0536+2	0539+3	0602	S05	W24	.408	16846	17.4	26	-B			160	1.8	FHJK
CULG	19	0536	0542	0602	S05	W24	.408	16846	17.4	26	1B	C	0542	440	4.8	FTH
ABST	19	0538	0539	0603	S14	W26	.473	16846	17.3	25	-N	C	0539	148	1.7	FJK
YUNN	19	0544E	0544	0545	S05	W24	.408	16846	17.4	1D	-B	P		161	1.8	
549 ABST	19	0538	0542	0551	S07	E85	.996	16862	25.6	13	?F	C	0542	87		AEJ
			IMP.1 NO : CULG YUNN													
GRP84550	19	0615+7	0626+5	0655	S09	W22	.389	16846	17.6	40	1N			250	2.7	JV
ABST	19	0615	0626	0710	S10	W23	.409	16846	17.5	55	1N	C	0626	262	2.9	FJ
YUNN	19	0615	0629	0651	S07	W22	.382	16846	17.6	36	1B	C		241	2.7	
PEKG	19	0620	0631	0650	S09	W23	.404	16846	17.5	30	1B	P	0631	252	2.8	E
MITK	19	0622E	0629	0705	S11	W22	.399	16846	17.6	43D	-N	C	0629			E
ISTA	19	0622	0628	0644	S09	W21	.374	16846	17.7	22	1N					V
CULG	19	0623E	0625D	0625D	S09	W21	.374	16846	17.7	2D	1N	P	0625	240	2.4	FT
551 ABST	19	0720	0721	0739D	S17	E21	.429	16850	20.9	19D	-F	P	0721	87	1.0	DV
552 PEKG	19	0810	0813	0817	N14	E55	.837	16859	23.5	7	-B	P	0810	63	1.2	D
	19	1102	1200	NO FLARE PATROL												
553 HOLL	19	1329	1329	1338	S29	E44	.762	16855	22.9	9	-N	3 C		29		
554 HOLL	19	1411	1412	1426	S05	E73	.956	16862	25.1	15	-F	3 C				
GRP84555	19	1418+2	1418+4	1428	S12	E15	.305	16850	20.7	10	-F			35	.4	
RAMY	19	1418	1418	1428	S13	E16	.328	16850	20.8	10	-F	3 C		34		
HOLL	19	1420	1422	1428	S12	E14	.292	16850	20.6	8	-F	3 C		36		
556 HOLL	19	1430	1431	1436	S29	E44	.762	16855	22.9	6	-F	3 C		49		
557 RAMY	19	1503	1537	1548	S05	E76	.970	16862	25.3	45	-F	3 C		31		
558 HOLL	19	1517	1522	1538	S19	E84	.994	16864	25.9	21	-F	3 C				
559 HOLL	19	1552	1554	1605	N14	W02	.282	16851	19.5	13	-F	3 C		29		
560 HOLL	19	1557	1603	1606	S23	W45	.746	16844	16.3	9	-N	3 C		30		
GRP84561	19	1609+0	1610+2	1631	N14	E47	.758	16859	23.2	22	-N			130	2.0	
HOLL	19	1609	1610	1634	N15	E47	.761	16859	23.2	25	-N	3 C		94		
BIGB	19	1609	1612	1628	N13	E48	.766	16859	23.3	19	1N	3 C	1612	170	2.6	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Apper (Disk)	Corr (Sq Deg)	Remarks
	19	2045	2050	NO FLARE PATROL												
GRP84562	19	2128+2	2131+1	2134	S12	E06	.198	16850	20.3	6	-F			60	.6	D
CULG	19	2128	2131	2133	S13	E06	.213	16850	20.3	5	-F	C	2131	60	.6	
VORO	19	2130	2132	2134	S12	E06	.198	16850	20.3	4	-F	C	2132	63	.6	D
563 CULG	19	2141	2142	2152	S13	E50	.773	16861	23.7	11	-F	C	2142	30	.5	
GRP84564	19	2245+2	2248+1	2256	S07	E78	.977	16862	25.8	11	-F			70		EJ
CULG	19	2245	2248	2254	S08	E77	.974	16862	25.7	9	-F	C	2248	60		
VORO	19	2247	2249	2258	S07	E80	.984	16862	25.9	11	-N	C	2249	81		EJ
565 VORO	19	2321	2332	2336	N15	E45	.740	16859	23.3	15	-N	C	2332	45	.7	D
	20	0316	0322	NO FLARE PATROL												
	20	0325	0348	NO FLARE PATROL												
	20	0353	0357	NO FLARE PATROL												
566 TACH	20	0441	0443	0454	N08	E22	.409	16857	21.8	13	-N	C	0443	115	1.3	D
567 CATA	20	0545	0545	0550	N09	E65	.911		25.1	5	-N	2 C	0545	28	.7	
GRP84568	20	0555+1	0555+3	0603	S14	E00	.206	16850	20.2	8	-N			90	.9	
CATA	20	0555	0555	0600D	S14	W01	.207	16850	20.2	5D	-N	2 P	0555	84	.9	
TACH	20	0556	0558	0600D	S14	E00	.206	16850	20.2	4D	-N	C	0558	88	.9	D
ABST	20	0559E	0559	0603	S14	E00	.206	16850	20.2	4D	-F	P	0559	87	1.0	BE
569 KHAR	20	0805E		0830D	S07	E71	.945	16862	25.7	25D	-F	V	0811	50		EH
570 KHAR	20	0807E	0818	0826D	S14	E85	.996	16863	26.7	19D	-F	V	0818			H
	20	1127	1144	NO FLARE PATROL												
571 RAMY	20	1404	1407	1415	S20	E85	.996	16864	27.0	11	-F	3 C				
572 RAMY	20	1429	1445	1452	S16	E90	1.000	16865	27.4	23	-F	3 C				
573 HTPR	20	1706		1713D	S19	E74	.962	16864	26.3	7D	-F	C	1709	10		
GRP84574	20	1706+4	1707+4	1715	S11	E78	.977	16863	26.6	9	-N					
HTPR	20	1706	1707	1711	S12	E73	.956	16863	26.2	5	-B	C	1707	70		
RAMY	20	1710	1711	1718	S10	E83	.992	16863	26.9	8	-N	3 C				
	20	1719	2008	NO FLARE PATROL												
575 HOLL	20	1719	1720	1724	S19	E77	.974	16864	26.5	5	-F	3 C				
576 HOLL	20	1743	1744	1806	S07	E64	.898	16862	25.5	23	-F	3 C		32		
	20	2143	2151	NO FLARE PATROL												
GRP84577	21	0152+2	0158+2	0212	S12	E34	.576	16861	23.6	20	-N			150	1.8	DG
PURP	21	0152	0159	0215	S13	E34	.579	16861	23.6	23	1B	C				G
VORO	21	0154	0200	0212	S11	E32	.545	16861	23.5	18	-N	C	0200	161	2.0	D
YUNN	21	0156E	0158	0211	S12	E34	.576	16861	23.6	15D	-N	P		145	1.8	
578 ABST	21	0716E	0718	0726D	S21	E70	.943	16864	26.6	10D	?F	P	0718	87		D
		IMP.1 NO : PURP YUNN CATA MONT														
579 ABST	21	0939	0941	0946	N13	E04	.268	16854	21.7	7	-F	C	0941	87	1.0	D
	21	1150	1250	NO FLARE PATROL												
GRP84580	21	1446+0	1450+0	1510	S21	E63	.900	16864	26.3	24	-N			70	1.6	
HUAN	21	1446	1450	1507	S22	E64	.908	16864	26.4	21	-N	1 C	1450	70	1.6	
HOLL	21	1446	1450	1513	S21	E63	.900	16864	26.3	27	-B	3 C		75		
581 HOLL	21	1516	1520	1532	S18	E63	.897	16864	26.4	16	-F	3 C		37		
582 HOLL	21	1619	1635	1659	S11	E61	.876	16863	26.3	40	-F	3 C		36		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
583 HOLL	21	1641	1648	1705	S18	E63	.897	16864	26.4	24	-F	3	C		22		
GRP84584	21	1802+2	1805+2	1827	S16	W15	.348	16850	20.6	25	-N				80	.9	
HOLL	21	1802	1807	1838	S16	W15	.348	16850	20.6	36	-N	3	C		102		
HUAN	21	1803E		1827	S16	W14	.336	16850	20.7	24D	-N	1	P	1808	80	.9	E
PALE	21	1804	1805	1820	S16	W15	.348	16850	20.6	16	-F	3	C		48		D
585 HUAN	21	1951		1959	N15	E15	.384	16859	23.0	8	-F	1	C				D
GRP84586	21	2049+2	2059+1 2107	2233	S14	W15	.327	16850	20.7	104	2N						HIJ
VORO	21	2049	2107	2230	S13	W22	.413	16850	20.2	101	3F		C	2100	1541	16.1	FHIJ
BOUL	21	2051	2100	2126D	S14	W15	.327	16850	20.7	35D	2B	4	C		550		
PALE	21	2058E	2100U	2235D	S13	W15	.317	16850	20.7	97D	3B	3	C		1291		
PALE	21	2058E	2058U	2058D	S14	W06	.231	16850	21.4		-F	3	C		113		D
HOLL	21	2059E	2059U	2100D	S14	W15	.327	16850	20.7	1D	1B	3	C		450		D
587 VORO	22	0024	0026	0031	S15	E75	.966	16865	27.6	7	-F		C	0026	27		D
588 PURP	22	0553	0554	0558	S21	E58	.862	16864	26.6	5	?N		C				
		IMP.1 NO : MITK CATA															
589 CATA	22	0600	0605	0620	S22	E55	.839	16864	26.4	20	?B	2	C	0605	169	3.2	
		IMP.1 NO : PURP															
GRP84590	22	0654+6	0656+9	0723	S26	E33	.641	16860	24.8	29	-B				140	1.8	E
ATHN	22	0654E	0656	0725	S27	E35	.663	16860	24.9	31D	-B	3	V	0656	95	1.3	
CATA	22	0700E	0700	0720	S25	E33	.634	16860	24.8	20D	-N	2	P	0700	140	1.9	
PEKG	22	0700	0705	0715	S27	E31	.628	16860	24.6	15	1B		P	0705	273	3.6	E
KHAR	22	0714E		0731D	S26	E33	.641	16860	24.8	17D	-F		P	0715	80	1.1	
591 KHAR	22	0734E	0751	0815D	S05	W63	.891	16846	17.6	41D	-F		P	0751	50		E
592 KHAR	22	0806E		0815D	N17	E18	.437	16859	23.7	9D	-F		P				D
593 KHAR	22	0806E		0815D	N03	E85	.996	16866	28.7	9D	-F		P				D
594 CATA	22	0825E	0840	1005	N11	E77	.977	16866	28.1	100D	?F	2	P	0840	112		
		IMP.1 NO : PURP															
	22	1005	1015	NO FLARE PATROL													
595 CATA	22	1030	1030	1105D	N06	E33	.557		24.9	35D	-N	2	P	1030	28	.3	
596 ABST	22	1046E	1046	1057D	N09	E78	.980	16866	28.3	11D	?N		P	1046	105		BD
		IMP.1 NO : CATA															
	22	1105	1115	NO FLARE PATROL													
597 KHAR	22	1120E		1127D	N09	E08	.233		23.1	7D	-F		P				
GRP84598	22	1120+5	1123	1127D	S21	E69	.938	16865	27.6	7	-N						
KHAR	22	1120E	1123	1127D	S22	E70	.944	16865	27.7	7D	-F		P				
CATA	22	1125	1125	1125D	S21	E69	.938	16865	27.7		1N	1	P	1125	84		
	22	1125	1250	NO FLARE PATROL													
599 KHAR	22	1227E	1231	1236D	N18	E12	.393	16859	23.4	9D	-F		P				E
600 KHAR	22	1307E	1307	1343D	N09	E76	.972	16866	28.2	36D	-F		P				
601 KHAR	22	1333E	1333	1343D	N13	E13	.337	16859	23.5	10D	-F		P	1333	60	.6	E
602 HUAN	22	1404		1417	N08	E75	.968	16866	28.2	13	-F	1	C	1410	25		D
GRP84603	22	1411+6	1417+3	1445	S18	W21	.441	16850	21.0	34	-F				90	1.0	E
HOLL	22	1411	1417	1458	S14	W23	.435	16850	20.9	47	-N	3	C		117		
RAMY	22	1417	1418	1446	S18	W20	.429	16850	21.1	29	-N	3	C		58		
HUAN	22	1417		1442	S18	W21	.441	16850	21.0	25	-F	1	C	1422	85	1.0	E
BIGB	22	1417	1420	1443	S18	W21	.441	16850	21.0	26	-F	3	C	1420	80	.9	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP84604	22	1416+1	1421+2	1439	S07	E38	.619	16862	25.4	23	-F				45	.6	
HOLL	22	1416	1423	1437	S07	E36	.591	16862	25.3	21	-F	3	C		37		
RAMY	22	1417	1421	1440	S07	E40	.645	16862	25.6	23	-F	3	C		46		
605 RAMY	22	1439	1439	1447	S32	E03	.504	16855	22.8	8	-F	3	C		32		
GRP84606	22	1513+2	1524	1535	N16	E12	.366	16859	23.5	22	-F						E
HUAN	22	1513		1527	N15	E12	.352	16859	23.5	14	-F	1	C				E
BIGB	22	1515	1524	1543	N18	E12	.393	16859	23.5	28	-F	3	C	1524	110	1.2	
GRP84607	22	1517+2	1519	1534	S15	W22	.428	16850	21.0	17	-F						E
HUAN	22	1517		1537	S18	W21	.441	16850	21.1	20	-F	1	C				E
RAMY	22	1519	1519	1531	S13	W24	.442	16850	20.8	12	-F	3	C		22		
608 HUAN	22	1529		1540	N09	E75	.968	16866	28.3	11	-F	1	C	1531	25		D
609 BIGB	22	1711	1712	1729	N18	E12	.393	16859	23.6	18	-N	3	C	1712	70	.7	
GRP84610	22	2054	2108	2307D	N16	E04	.314	16859	23.2	133	2B						
BIGB	22	2054	2108	2340	N16	E06	.323	16859	23.3	166	2B	3	C	2108	520	5.4	
PALE	22	2121E	2121U	2247D	N16	E04	.314	16859	23.2	86D	1N	3	C		457		
MITK	22	2226E		2307	N18	E03	.344	16859	23.2	41D	-N		C	2226			
611 PALE	22	2121E	2131U	2145D	N10	E70	.944	16866	28.1	24D	-F	3	C		18		D
612 PURP	23	0009	0013	0127	N08	E73	.958	16866	28.5	78	?N		C				
			IMP.1 NO : MITK HOLL														
613 ISTA	23	0615		0624	S20	E43	.717	16864	26.5	9	-N						D
GRP84614	23	0623+0	0626	0637	S19	E61	.884	16865	27.8	14	-B						EU
PURP	23	0623	0626	0633	S19	E62	.891	16865	27.9	10	-B		C				E
ISTA	23	0623		0640	S19	E60	.876	16865	27.8	17	1N						U
GRP84615	23	0703	0703	0711	S11	E32	.546	16863	25.7	8	-N						D
PURP	23	0703	0703	0710	S11	E32	.546	16863	25.7	7	-N		C				D
KHAR	23	0706E		0712	S12	E33	.563	16863	25.8	6D	-F		P	0706			D
GRP84616	23	0719E	0720 0731	0734	S08	E25	.433	16862	25.2	15	-F						D
KHAR	23	0719E	0720	0730D	S10	E24	.426	16862	25.1	11D	-F		P	0719			D
KHAR	23	0730E	0731	0734	S07	E27	.460	16862	25.3	4D	-F		V	0731			D
617 ABST	23	0833	0833	0836D	S23	E42	.718	16864	26.5	3D	-F		P	0833	87	1.2	D
GRP84618	23	1339>9	1359	1431	S22	E37	.660	16864	26.3	52	-F						E
HOLL	23	1339	1359	1434	S21	E38	.666	16864	26.4	55	-N	3	C		118		
HUAN	23	1404		1428	S23	E37	.665	16864	26.4	24	-F	1	C	1410	120	1.6	E
619 HUAN	23	1342		1356	N15	W04	.296	16859	23.3	14	-F	1	C	1351	40	.4	
GRP84620	23	1441+1	1443+3	1455	S21	E37	.654	16864	26.4	14	-F						E
HUAN	23	1441	1446	1451	S21	E37	.654	16864	26.4	10	-F	1	C	1446	80	1.1	E
HOLL	23	1442	1443	1458	S21	E37	.654	16864	26.4	16	-N	3	C		22		
621 HUAN	23	1451	1452	1457	S28	E12	.479	16860	24.5	6	-F	1	C	1452	70	.8	
622 HUAN	23	1626	1631	1641	S19	W35	.621	16850	21.1	15	-F	1	C	1631	85	1.1	E
623 RAMY	23	1704	1706	1710	S20	E37	.649	16864	26.5	6	-F	3	C		21		
624 HUAN	23	1819		1830	S19	W36	.632	16850	21.1	11	-F	1	C	1823	60	.8	E
GRP84625	23	1821E	1824	1836	S21	E36	.643	16864	26.5	15	-F						
HOLL	23	1821E	1824	1836	S21	E36	.643	16864	26.5	15D	-F	3	C		22		
GRP84626	23	1821E	1826	1841	S07	E19	.336	16862	25.2	20	-F						
HOLL	23	1821E	1826	1841	S07	E19	.336	16862	25.2	20D	-F	3	C		67		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Area Measurement Apper (Disk)	Area Measurement Corr (Sq Deg)	Remarks
	23	1858	1911	NO FLARE PATROL													
GRP84627	23	2029+1	2033+1	2117	S06	E16	.284	16862	25.1	48	-N				100	1.0	
HOLL	23	2029	2033	2117	S07	E16	.289	16862	25.1	48	-N	3	C		120		
HUAN	23	2030	2034	2054D	S06	E16	.284	16862	25.1	24D	-N	2	P	2034	90	1.0	
GRP84628	23	2133>9	2146+0	2148D	S06	E15	.268	16862	25.0	15	1B				230	2.4	D
HOLL	23	2133	2146	2146D	S06	E15	.268	16862	25.0	13D	1B	*	C		250		
RAMY	23	2143	2146	2148D	S06	E16	.284	16862	25.1	5D	1B	*	C		216		D
629 RAMY	23	2137	2137	2142	S17	E36	.623	16864	26.6	5	-F	3	C		23		
GRP84630	23	2259+0	2303+3	2322	S20	E32	.591	16864	26.4	23	-F				25	.3	
HOLL	23	2259	2306	2329	S20	E33	.602	16864	26.4	30	-F	3	C		22		
MANI	23	2259	2303	2314	S21	E32	.597	16864	26.4	15	-F	2	P		25	.3	
GRP84631	24	0019+0	0020+1	0035D	S23	E32	.611	16864	26.4	16	-N				90	1.1	
HOLL	24	0019	0021	0035	S23	E33	.622	16864	26.5	16	-N	3	C		105		
MANI	24	0019	0020	0130	S24	E31	.607	16864	26.3	71	-N	2	P		80	1.1	
GRP84632	24	0046+1	0051+1	0125	N17	W07	.340	16859	23.5	39	1N				260	2.8	EH
MANI	24	0046	0051	0125	N17	W06	.335	16859	23.6	39	-N	2	P		180	2.0	F
HOLL	24	0047	0052	0054D	N17	W08	.346	16859	23.4	7D	1N	3	C		289		
VORO	24	0052E		0116	N18	W08	.361	16859	23.4	24D	1N		C	0054	314	3.4	EH
MITK	24	0053E		0140D	N17	W03	.324	16859	23.8	47D	-N		P	0054			E
633 VORO	24	0149	0152	0201	S25	E05	.404	16860	24.5	12	-N		C	0152	116	1.3	E
634 VORO	24	0212E		0227	S22	E28	.559	16864	26.2	15D	-N		C	0212	81	1.0	D
635 CULG	24	0451	0459	0508	S26	E04	.417	16860	24.5	17	?N		C	0459	350	3.9	F
			IMP.1 NO : MITK														
636 CULG	24	0504	0505	0521	N23	W36	.680	16853	21.5	17	-F		C	0505	80	1.1	
GRP84637	24	0518>9	0530	0549	S20	E28	.544	16864	26.3	31	-F						DJV
			0547														
CULG	24	0518	0530U	0550	S19	E30	.561	16864	26.5	32	-F		C	0530	100	1.2	
ABST	24	0546	0547	0548	S21	E26	.528	16864	26.2	2	-F		C	0547	79	.9	DJV
GRP84638	24	0529+0	0532+6	0541	S06	E11	.205	16862	25.1	12	-F				90	.9	EK
CULG	24	0529	0538	0545	S07	E11	.211	16862	25.1	16	-N		C	0538	80	.8	K
ABST	24	0529	0532	0537	S06	E11	.205	16862	25.1	8	-F		C	0532	96	1.0	E
639 ABST	24	0545	0546	0550	S11	E19	.359	16863	25.7	5	-N		C	0546	105	1.2	EJV
640 ABST	24	0618	0620	0623	N08	E51	.785	16866	28.1	5	-F		C	0620	87	1.4	DJ
GRP84641	24	0623	0646+4	0733	S15	W50	.778	16850	20.5	70	1N				170	2.7	JK
ABST	24	0623	0646	0738D	S14	W50	.776	16850	20.5	75D	1N		P	0646	262	4.2	FJK
HTPR	24	0637E		0705	S13	W50	.458	16850	20.5	28D	-F		C	0645	40	.4	E
CATA	24	0645E	0650	0655D	S15	W58	.855	16850	19.9	10D	1N	2	P	0650	169	3.4	
KHAR	24	0703E		0727D	S15	W47	.746	16850	20.8	24D	-F		C	0703	100	1.6	E
KHAR	24	0726E	0726	0744D	S16	W50	.780	16850	20.6	18D	-F		V	0726			D
GRP84642	24	0652+1	0654+1	0715	N09	E54	.818	16866	28.3	23	-N						EJZ
ABST	24	0652	0655	0718	N07	E54	.815	16866	28.3	26	1N		C	0655	183	3.1	EJ
HTPR	24	0653	0654	0706	N09	E52	.797	16866	28.2	13	-B		C	0654	80	1.3	E
KHAR	24	0703E		0715D	N09	E54	.818	16866	28.3	12D	-F		C	0703	60	1.1	EZ
643 KHAR	24	0703E	0711	0731D	S28	E05	.451	16860	24.7	28D	-F		C				E
644 KHAR	24	0703E	0703	0737D	S10	E20	.367	16863	25.8	34D	-F		C				
645 KHAR	24	0724E		0724D	N17	W13	.385	16859	23.3		-F		C				D
646 KHAR	24	0750E	0751	0758D	S13	W46	.730	16850	20.9	8D	-F		V	0751			

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP84647	24	0827+3	0833+2	0852	S06	E10	.189	16862	25.1	25	1N			210	2.1	EH
KHAR	24	0827E	0833	0854D	S06	E09	.173	16862	25.0	27D	1B	C	0833	200	2.1	E
HTPR	24	0827		0830D	S07	E10	.196	16862	25.1	3D	-F	C	0830	20	.2	
MONT	24	0828	0834	0853	S06	E09	.173	16862	25.0	25	-N	C	0834	220		H
YUNN	24	0830	0835	0845	S06	E10	.189	16862	25.1	15	1N	C		273	2.8	
HTPR	24	0834E		0850	S07	E10	.196	16862	25.1	16D	1B	C	0834	250	2.5	E
CATA	24	0845E	0845	0855	S06	E13	.260	16862	25.3	10D	-N	2 P	0845	84	.9	
GRP84648	24	1024+3	1027 1035	1129	S21	E02	.333	16860	24.6	65	-F			90	.9	EI
KHAR	24	1024E	1027	1129D	S21	E02	.333	16860	24.6	65D	-F	C	1029	90	.9	E
MONT	24	1027	1035	1131	S21	E01	.332	16860	24.5	64	-N	C	1035	100		E
HTPR	24	1028E		1115	S21	E04	.338	16860	24.7	47D	-F	C	1031	80	.8	EI
GRP84649	24	1103+0	1103+2	1112	S14	E25	.464	16863	26.3	9	-F					D
RAMY	24	1103	1105	1111	S12	E26	.466	16863	26.4	8	-F	3 C		61		
KHAR	24	1103E	1103	1112D	S16	E24	.464	16863	26.3	9D	-F	P	1103			D
GRP84650	24	1109+2	1110 1137+0	1144	S21	E26	.528	16864	26.4	35	-N			80	.9	
KHAR	24	1109E	1110	1116D	S19	E28	.537	16864	26.6	7D	-F	* P	1110			
RAMY	24	1111	1137	1148	S21	E26	.528	16864	26.4	37	-N	* C		89		
KHAR	24	1134E	1137	1144D	S22	E27	.548	16864	26.5	10D	-N	* P	1137	100	1.2	
HTPR	24	1136	1137	1141	S22	E26	.537	16864	26.4	5	-F	* C	1137	50	.6	
GRP84651	24	1110+3	1112+3	1123	S06	E11	.205	16862	25.3	13	-N			50	.5	E
HTPR	24	1110	1112	1130	S06	E11	.205	16862	25.3	20	-N	C	1112	60	.6	E
RAMY	24	1112	1113	1123	S06	E12	.220	16862	25.4	11	-N	3 C		51		
MONT	24	1113	1115	1123	S06	E11	.205	16862	25.3	10	-F	C	1115	50		E
652 KHAR	24	1117E	1120	1130D	S27	E00	.428	16860	24.5	13D	-F	P				
653 KHAR	24	1150E	1157	1207D	N18	W12	.390	16859	23.6	17D	-F	P	1157	100	1.1	E
GRP84654	24	1218+4	1222+3	1232	N11	E50	.780	16866	28.3	14	-F			70	1.1	E
HTPR	24	1218	1222	1235	N10	E50	.778	16866	28.3	17	-N	C	1222	70	1.1	E
RAMY	24	1222	1224	1229	N11	E51	.791	16866	28.3	7	-F	3 C		18		
KHAR	24	1222E	1225	1232D	N11	E50	.780	16866	28.3	10D	-F	P	1225	90	1.5	E
GRP84655	24	1229+8	1237+5	1255	S11	W13	.275	16861	23.5	26	-N			80	.8	EG
HTPR	24	1229	1237	1257	S11	W12	.261	16861	23.6	28	-B	C	1237	80	.8	E
KHAR	24	1232E	1242	1255D	S12	W13	.285	16861	23.5	23D	-N	P	1242	60	.6	E
LVOV	24	1237	1240	1248	S11	W14	.288	16861	23.5	11	-F	C	1240	100	1.1	EG
GRP84656	24	1316+4	1319+1	1330	S14	W47	.744	16850	21.0	14	-F			30	.4	D
HTPR	24	1316	1319	1330	S14	W47	.744	16850	21.0	14	-F	C	1319	20	.3	
KHAR	24	1317E	1320	1320D	S14	W44	.710	16850	21.3	3D	-F	P	1320	40	.5	D
RAMY	24	1320	1320	1330	S16	W47	.748	16850	21.0	10	-F	3 C		17		
GRP84657	24	1353+4	1357+1	1414	N11	E49	.770	16866	28.3	21	-N			70	1.1	E
HTPR	24	1353	1357	1415	N11	E48	.759	16866	28.2	22	-N	C	1357	50	.7	E
HUAN	24	1355	1358	1407	N10	E50	.778	16866	28.3	12	-N	1 C	1358	65	1.0	E
HOLL	24	1357	1358	1414	N12	E49	.772	16866	28.3	17	-N	2 C		79		
GRP84658	24	1423+3	1426+1	1437	S14	W51	.787	16850	20.8	14	-F			30	.5	
HOLL	24	1423	1426	1437	S16	W50	.780	16850	20.8	14	-F	2 C		28		
RAMY	24	1426	1427	1436	S13	W52	.795	16850	20.7	10	-F	3 C		30		
GRP84659	24	1435+9	1444+3	1517	N11	E50	.780	16866	28.4	42	-F			30	.5	K
HTPR	24	1435	1444	1520	N11	E47	.748	16866	28.1	45	-N	C	1444	30	.4	K
HUAN	24	1440	1445	1517	N10	E50	.778	16866	28.4	37	-F	1 C	1445	40	.7	
RAMY	24	1444	1447	1450	N12	E50	.783	16866	28.4	6	-F	3 C		18		
660 HOLL	24	1450	1452	1546	N16	W21	.458	16859	23.0	56	-F	3 C		35		
GRP84661	24	1527+0	1533	1547	S07	E07	.153	16862	25.2	20	-F					E
HTPR	24	1527	1533	1549	S07	E08	.167	16862	25.2	22	-F	C	1533	20	.2	E
HUAN	24	1527		1544	S07	E07	.153	16862	25.2	17	-F	1 C				
662 RAMY	24	1531	1532	1534	S06	E90	1.000	16867	31.4	3	-F	3 C				

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GRP84663	24	1536+0	1538	1555	N11	E47	.748	16866	28.2	19	-F					E
HTPR	24	1536	1538	1552	N12	E47	.751	16866	28.2	16	-F	C	1538	40	.6	E
HUAN	24	1536		1557	N11	E48	.759	16866	28.2	21	-F	1 C				E
664 HTPR	24	1621	1625	1630	S24	E01	.381	16860	24.8	9	-F	C	1625	10	.1	
GRP84665	24	1632+4	1637+2	1655	N11	E47	.748	16866	28.2	23	-F			40	.6	E
HTPR	24	1632	1637	1701	N12	E46	.739	16866	28.1	29	-N	C	1637	100	1.6	E
HOLL	24	1633	1638	1657	N10	E46	.734	16866	28.1	24	-N	3 C		43		
HUAN	24	1634		1648	N11	E48	.759	16866	28.3	14	-F	1 C				E
RAMY	24	1636	1639	1652	N11	E49	.770	16866	28.4	16	-F	3 C		27		
GRP84666	24	1740+4	1745	1750	N11	E46	.737	16866	28.2	10	-F					
HUAN	24	1740		1746D	N11	E48	.759	16866	28.3	6D	-F	1 P				
HOLL	24	1744	1745	1750	N12	E45	.728	16866	28.1	6	-F	3 C		30		
667 HOLL	24	1824	1825	1838	N12	E45	.728	16866	28.1	14	-F	3 C		33		
668 HOLL	24	1837	1845	1849	S21	E21	.472	16864	26.4	12	-F	3 C		36		
669 HOLL	24	1940	1940	1947	S24	W54	.836	16850	20.8	7	-F	3 C		20		
670 HOLL	24	1951	2004	2006	N15	W23	.473	16859	23.1	15	-F	3 C		32		
671 HUAN	24	2005		2017D	N11	E45	.725	16866	28.2	12D	-F	1 P				E
	24	2017	2021	NO FLARE PATROL												
672 CULG	24	2206E	2206E	2210	S13	E17	.347	16863	26.2	4D	-F	P	2206	120	1.3	
GRP84673	24	2229+2	2236+0	2304	N11	E43	.702	16866	28.2	35	1N			180	2.5	EJ
CULG	24	2229	2236	2308	N12	E44	.717	16866	28.2	39	1N	C	2236	180	2.5	J
VORO	24	2231	2236	2300	N11	E42	.690	16866	28.1	29	1N	C	2236	188	2.7	EJ
674 CULG	24	2233	2234	2310	S17	W07	.289	16860	24.4	37	-F	C	2234	60	.6	
GRP84675	24	2312>9	2338 2345	2352	S13	E16	.334	16863	26.2	40	-F					
CULG	24	2312	2338	2355U	S13	E16	.334	16863	26.2	43D	-F	C	2338	70	.8	
PALE	24	2344	2345	2349	S14	E17	.356	16863	26.3	5	-F	3 C		31		
GRP84676	25	0009+2	0017 0046+0	0105	N11	E41	.678	16866	28.1	56	-N					EJK
CULG	25	0009	0046	0104	N12	E42	.693	16866	28.2	55	-N	C	0046	100	1.4	JK
VORO	25	0011	0017	0023	N11	E42	.690	16866	28.2	12	1F	C	0017	233	3.4	E
VORO	25	0037	0046	0106	N10	E40	.662	16866	28.0	29	1F	C	0046	242	3.4	EJ
677 CULG	25	0033	0049 IMP.2 NO : PALE VORO	0120	N18	W25	.521	16859	23.1	47	?F	C	0049	580	6.7	FI
678 CULG	25	0037	0050	0108	N25	W12	.484	16858	24.1	31	-F	C	0050	80	.9	
GRP84679	25	0055+5	0103+5	0115D	S09	E08	.189	16862	25.6	20	-N			50	.5	DZ
CULG	25	0055	0108	0230U	S08	E07	.165	16862	25.6	95D	-N	C	0108	100	1.0	
CULG	25	0058	0103	0111	S11	E09	.225	16862	25.7	13	-F	C	0103	30	.3	Z
VORO	25	0100	0105	0115	S08	E08	.178	16862	25.6	15	-N	C	0105	54	.6	D
GRP84680	25	0126	0137 0146	0206D	S13	W61	.878	16850	20.5	40	1N					I
CULG	25	0126	0146	0355	S13	W60	.870	16850	20.6	149	2N	C	0146	510	10.2	FI
PALE	25	0128E	0137U	0205D	S16	W61	.881	16850	20.5	37D	1N	2 C		323		D
VORO	25	0146E		0206	S12	W63	.893	16850	20.3	20D	1F	P	0146	215	4.2	E
681 CULG	25	0327	0329	0342	S14	E13	.307	16863	26.1	15	-F	C	0329	100	1.1	
GRP84682	25	0536+7	0547+3	0605	N11	E40	.665	16866	28.2	29	-N			90	1.2	DJ
CULG	25	0536	0550	0608D	N12	E39	.656	16866	28.2	32D	1N	P	0550	220	3.1	
ABST	25	0543	0547	0555	N13	E42	.696	16866	28.4	12	-N	C	0547	87	1.2	DJ
KANZ	25	0545E	0548	0602	N11	E49	.769	16866	28.9	17D	-N	2				
WEND	25	0553E		0611D	N10	E39	.649	16866	28.2	18D	-F	C	0554	94	1.3	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP84683	25	0547+4	0554+6 0606	0635	S07	E06	.141	16862	25.7	48	-N				70	.7	DZ
ABST	25	0547	0600	0620D	S07	E05	.129	16862	25.6	33D	-N		P	0600	87	.9	D
CULG	25	0550	0554U	0608D	S08	E05	.142	16862	25.6	18D	-N		P	0554	80	.8	
CATA	25	0550	0600	0625D	S07	E06	.181	16862	25.7	35D	-B	2	P	0600	56	.6	
KANZ	25	0551	0559	0635	S08	E05	.142	16862	25.6	44	-N	1					D
CULG	25	0551	0606U	0608D	S11	E08	.214	16862	25.8	17D	-N		P	0606	30	.3	Z
WEND	25	0553E		0611D	S07	E06	.141	16862	25.7	18D	-N		C	0554	56	.6	
684 ABST	25	0703	0705	0712	S10	W60	.868	16850	20.8	9	-F		C	0705	87		D
685 ABST	25	0704	0705	0707D	S15	E81	.987	16867	31.4	3D	-F		P	0705	70		D
686 ABST	25	0719	0721	0733	N15	W30	.559	16859	23.1	14	-F		C	0721	96	1.2	EJ
687 ABST	25	0940	0958	1002	N12	E38	.644	16866	28.3	22	-F		C	0958	87	1.2	FJK
688 RAMY	25	1329	1331	1345	S13	E82	.990	16867	31.7	16	-F	3	C				
GRP84689	25	1334	1338	1342	S13	E06	.224	16863	26.0	8	-N						
RAMY	25	1334	1338	1342	S15	E08	.269	16863	26.2	8	-F	3	C		60		
RAMY	25	1337	1338	1341	S12	E05	.201	16863	25.9	4	-N	3	C		35		
690 RAMY	25	1341	1341	1358D	S08	E02	.118	16862	25.7	17D	-F	3	C		23		
GRP84691	25	1410+4	1413+2	1431	S19	E13	.368	16864	26.6	21	-N				160	1.7	E
HOLL	25	1410	1413	1436	S19	E13	.368	16864	26.6	26	-N	3	C		186		
HUAN	25	1411	1415	1420	S18	E14	.366	16864	26.6	9	-N	1	C	1415	125	1.4	E
RAMY	25	1414	1415	1431	S19	E13	.368	16864	26.6	17	-N	3	C		147		
GRP84692	25	1423+0	1423+0	1434	S15	E32	.564	16865	28.0	11	-F				30	.4	E
HOLL	25	1423	1423	1433	S15	E32	.564	16865	28.0	10	-F	3	C		27		
RAMY	25	1423	1423	1437	S15	E33	.577	16865	28.1	14	-F	3	C		34		
WEND	25	1429E		1434D	S15	E31	.551	16865	27.9	5D	-N		C	1429	66	.8	E
GRP84693	25	1544+0	1548+1	1554	S11	W64	.900	16850	20.9	10	-F				45	1.0	
HOLL	25	1544	1549	1557	S12	W65	.908	16850	20.8	13	-F	3	C		48		
HUAN	25	1544	1548	1551	S10	W63	.892	16850	20.9	7	-F	1	C	1548	40		
694 HOLL	25	1544	1551	1610	S23	E12	.414	16864	26.6	26	-N	3	C		63		
GRP84695	25	1550+1	1551+0	1556	N16	W29	.553	16859	23.5	6	-N				45	.5	
HUAN	25	1550	1551	1554	N16	W28	.541	16859	23.6	4	-N	1	C	1551	35	.4	
HOLL	25	1551	1551	1557	N16	W30	.565	16859	23.4	6	-N	3	C		53		
696 RAMY	25	1600	1607	1619	N24	W29	.616	16858	23.5	19	-F	3	C		27		
697 WEND	25	1657	1700	1708D	S34	W37	.736	16855	22.9	11D	-F		C	1700	63	1.0	
698 HOLL	25	1727	1730	1747	S10	E71	.946	16867	31.1	20	-N	2	C		27		
699 HOLL	25	1848	1849	1855	S15	W01	.234	16863	25.7	7	-F	3	C		38		
700 HOLL	25	1848	1849	1858	S21	E08	.358	16864	26.4	10	-F	3	C		90		
GRP84701	25	1919+5	1926+1	1940	S15	E29	.524	16865	28.0	21	-F				30	.4	
RAMY	25	1919	1927	1940	S15	E30	.538	16865	28.1	21	-F	3	C		30		
HOLL	25	1924	1926	1930D	S15	E29	.524	16865	28.0	6D	-F	2	C		32		
702 HOLL	25	1941	1942	1952	S20	E07	.337	16864	26.3	11	-F	3	C		62		
703 PALE	25	2107E	2125U	2131D	S13	E72	.952	16867	31.3	24D	-F	1	C		30		
	25	2142	2304	NO FLARE PATROL													
	25	2327	0002	NO FLARE PATROL													
704 HOLL	26	0002E	0002U	0018	S18	E07	.308	16864	26.5	16D	-F	2	C		31		
705 HOLL	26	0002E	0002U	0046	S14	E01	.219	16863	26.1	44D	-F	2	C		47		
706 HOLL	26	0003	0026	0031	N15	W39	.668	16859	23.1	28	-F	2	C		20		

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707 HOLL	26	0101	0102	0119	S13	E02	.204	16863	26.2	18	-F	2	C		26		
GRP84708	26	0545+1	0550 0604+0	0618	S16	W02	.254	16863	26.1	33	-N						
ABST	26	0545	0604	0618	S16	W02	.254	16863	26.1	33	-N		C	0604	87	.9	D
PURP	26	0546	0550	0619	S16	E00	.252	16863	26.2	33	-F		C				E
KANZ	26	0600	0604	0618	S15	W02	.237	16863	26.1	18	-N	2					
GRP84709	26	0630+2	0631+2 0640	0656	S21	W24	.508	16860	24.5	26	-N						EW
ABST	26	0630	0631	0644	S23	W26	.548	16860	24.3	14	-N		C	0631	87	1.1	D
ABST	26	0631	0633	0644	S24	W19	.487	16860	24.8	13	-N		C	0633	87	1.0	E
KANZ	26	0632	0640	0654	S21	W25	.519	16860	24.4	22	-N	2					
WEND	26	0633E		0709	S19	W27	.526	16860	24.2	36D	1F		C	0642	240	2.9	
WEND	26	0633E		0646	S22	W20	.475	16860	24.8	13D	-N		C	0633	44	.5	D
PURP	26	0635	0657	0657D	S21	W24	.508	16860	24.5	22D	1F		C				W
710 ABST	26	0726	0726	0734	S16	E67	.924	16867	31.3	8	-F		C	0726	87		DV
GRP84711	26	0735+2	0735+2	0744	S10	W03	.158	16863	26.1	9	-N				80	.8	JV
ABST	26	0735	0735	0742	S10	W03	.158	16863	26.1	7	-N		C	0735	114	1.2	EJV
WEND	26	0736	0736	0744	S08	W03	.126	16863	26.1	8	-F		C	0736	50	.5	D
KANZ	26	0737	0737	0745	S10	W03	.158	16863	26.1	8	-N	3					
GRP84712	26	0753+0	0755+1	0800	S14	E21	.411	16865	27.9	7	-F						D
KANZ	26	0753	0756	0800	S15	E22	.432	16865	28.0	7	-F	3					
WEND	26	0753	0755	0759	S14	E20	.398	16865	27.8	6	-F		C	0755	75	.8	D
GRP84713	26	0759+2	0803+1	0824	S15	E65	.910	16867	31.2	25	1N				110		FJK
ABST	26	0759	0803	0824	S16	E66	.918	16867	31.3	25	1N		C	0803	96		FJ
KANZ	26	0800	0804	0837	S13	E64	.902	16867	31.1	37	-N	3					K
WEND	26	0801		0823	S15	E65	.910	16867	31.2	22	1F		C	0804	130		
GRP84714	26	0810+4	0814	0827	N17	W44	.733	16859	23.0	17	-F						
WEND	26	0810		0827	N18	W44	.737	16859	23.0	17	-N		C	0814	56	.9	
KANZ	26	0814	0814	0826	N17	W45	.743	16859	23.0	12	-F	3					
715 KANZ	26	0923	0928	0937	S08	E56	.831	16867	30.6	14	-N	3					
	26	1049	1056	NO FLARE PATROL													
716 WEND	26	1135		1138D	S08	E55	.821	16867	30.6	3D	-N		C	1138	106	1.9	
	26	1138	1240	NO FLARE PATROL													
717 WEND	26	1240E		1242D	S15	E64	.903	16867	31.3	2D	1F		C	1240	175	4.2	
718 KANZ	26	1250	1250	1258	S10	E54	.813	16867	30.6	8	-N	3					D
GRP84719	26	1306>9	1308 1329	1335	S12	E56	.834	16867	30.7	29	-N						L
ATHN	26	1306E	1308	1330	S16	E58	.857	16867	30.9	24D	-B	3	S	1308	95	1.9	
KANZ	26	1316	1329	1340	S09	E54	.812	16867	30.6	24	-N	3					L
	26	1400	1549	NO FLARE PATROL													
	26	1558	1648	NO FLARE PATROL													
720 PALE	26	1648E	1652	1659	S12	E62	.886	16867	31.3	11D	-F	2	C		36		
GRP84721	26	1727+7	1737+3	1801	S12	E61	.878	16867	31.3	34	-F				40	.8	D
HOLL	26	1727	1740	1755	S12	E60	.869	16867	31.2	28	-N	*	C		43		
PALE	26	1734	1737	1807	S12	E62	.886	16867	31.4	33	-F	*	C		42		D
722 HOLL	26	1728	1729	1736	S10	W09	.215	16863	26.1	8	-F	3	C		50		
GRP84723	26	1728+1	1731+0	1743	S21	W03	.339	16864	26.5	15	-N						D
HOLL	26	1728	1731	1750	S21	W04	.342	16864	26.4	22	-B	2	C		96		
PALE	26	1729	1731	1735	S21	W02	.337	16864	26.6	6	-F	3	C		23		D
724 HOLL	26	1730	1731	1737	N09	E19	.368	16866	28.2	7	-F	3	C		39		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
725 HOLL	26	1739	1741	1747	N09	E19	.368	16866	28.2	8	-F	2	C		59		
726 HOLL	26	1811	1813	1831	S14	E14	.321	16865	27.8	20	-F	3	C		71		
727 31GB	26	1824E	1827U	1939D	S10	W90	1.000	16850	20.0	75D	-N	2	P	1827	40		
728 BIGB	26	2023	2025U	2222	S10	W90	1.000	16850	20.1	119	?B	2	P	2025	80		
		IMP.1 NO : HOLL															
	26	2030	2036	NO FLARE PATROL													
729 HOLL	26	2046	2114	2117	S12	E58	.852	16867	31.2	31	-F	3	C		39		
730 HOLL	26	2116	2116	2136	N11	E18	.371	16866	28.2	20	-F	3	C		20		
731 HOLL	27	0119	0122	0134D	S18	W08	.317	16864	26.5	15D	-F	3	C		24		
732 PURP	27	0308	0310	0330	N18	E53	.825	16869	31.1	22	?F		C				
		IMP.1 NO : MITK YUNN															
GRP84733	27	0502+3	0505	0515	S15	E07	.265	16865	27.7	13	-N						E
YUNN	27	0502		0512	S15	E07	.265	16865	27.7	10	-N		P	0507	94	1.0	E
PURP	27	0505	0505	0517	S15	E08	.273	16865	27.8	12	-B		C				E
GRP84734	27	0600+3	0604	0620	S13	E52	.796	16867	31.1	20	-N						E
BUCA	27	0600E		0620	S13	E52	.796	16867	31.1	20D	-F		C	0601	54	.9	E
PURP	27	0603	0604	0611	S12	E54	.815	16867	31.3	8	-B		C				E
WEND	27	0612E		0620	S13	E52	.796	16867	31.2	8D	-F		C	0614	112	1.9	
GRP84735	27	0647+2	0653	0658	N17	W55	.841	16859	23.2	11	-F						
WEND	27	0647		0658	N18	W56	.851	16859	23.1	11	-F		C	0654	62	1.2	
KANZ	27	0649	0653	0658	N16	W55	.838	16859	23.2	9	-F	1					
GRP84736	27	0702+3	0706+3	0720	S15	E06	.258	16865	27.7	18	-N				90	.9	EJ
PURP	27	0702	0707	0707D	S15	E06	.258	16865	27.7	5D	-B		V				E
KANZ	27	0702	0709	0720	S15	E06	.258	16865	27.7	18	-N	2					
WEND	27	0702	0706	0720	S14	E06	.242	16865	27.7	18	-B		C	0706	106	1.1	
BUCA	27	0705		0730	S15	E06	.258	16865	27.7	25	-F		C	0710	86	.9	
YUNN	27	0709E		0718D	S15	E06	.258	16865	27.7	9D	-N		P	0709	80	.8	EJ
737 PURP	27	0800	0811	0826	N13	W21	.427		25.8	26	-B		C				
738 WEND	27	0803		0827	S06	W22	.382	16862	25.7	24	*-N		C	0813	34	.4	D
GRP84739	27	0820+5	0822+5	0834	S19	W12	.363	16864	26.4	14	-N				160	1.7	E
PEKG	27	0820	0822	0835	S19	W12	.363	16864	26.4	15	1B		P	0823	210	2.3	E
KANZ	27	0820	0824	0835	S18	W13	.359	16864	26.4	15	-N	2					
WEND	27	0821	0825	0832	S18	W12	.349	16864	26.4	11	-B		C	0825	175	1.9	
ISTA	27	0821		0832	S19	W09	.338	16864	26.7	11	-F						D
PURP	27	0824	0824	0833	S19	W10	.346	16864	26.6	9	1B		C				
ATHN	27	0825	0827	0841	S19	W12	.363	16864	26.5	16	-B	2	V	0827	127	1.4	
YUNN	27	0825E		0834	S19	W12	.363	16864	26.5	9D	-N		P	0829	129	1.4	E
740 WEND	27	0827		0837	S13	E51	.786	16867	31.2	10	-F		C	0832	47	.8	
GRP84741	27	0902+1	0903+2	0916	S15	E05	.252	16865	27.8	14	-F						E
WEND	27	0902	0904	0910D	S14	E05	.236	16865	27.8	8D	-F		C	0904	131	1.4	
KANZ	27	0903	0903	0919	S15	E05	.252	16865	27.8	16	-F	2					
PURP	27	0903	0905	0913	S15	E06	.258	16865	27.8	10	-N		C				E
GRP84742	27	0903+2	0905+1	0918	S14	E49	.767	16867	31.1	15	-N						E
KANZ	27	0903	0906	0926	S14	E49	.767	16867	31.1	23	-F	2					
WEND	27	0904		0910D	S14	E51	.788	16867	31.2	6D	1N		C	0910	200	3.4	
PURP	27	0905	0905	0910	S12	E48	.752	16867	31.0	5	-B		C				E
	27	0928	0936	NO FLARE PATROL													
	27	0945	0957	NO FLARE PATROL													
	27	1016	1038	NO FLARE PATROL													
	27	1122	1131	NO FLARE PATROL													
743 KHAR	27	1142E		1146D	S16	E51	.792	16867	31.3	4D	-F		V	1143			

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
744 KHAR	27	1152E		1155D	S16	E52	.802	16867	31.4	3D	-F		V	1152			D
745 KHAR	27	1200E		1207D	S14	E47	.745	16867	31.0	7D	-F		V	1201			D
746 KHAR	27	1203E		1207D	S19	W15	.391	16864	26.4	4D	-F		V	1206			E
GRP84747	27	1215+1	1218+1	1225	S13	E47	.743	16867	31.0	10	-F				80	1.2	J
MONT	27	1215	1219	1221	S13	E48	.754	16867	31.1	6	-F		C	1219	70		E
LVOV	27	1216	1218	1229	S14	E47	.745	16867	31.0	13	-N		C	1218	100	1.6	DJ
	27	1258	1324	NO FLARE PATROL													
	27	1403	1413	NO FLARE PATROL													
748 HUAN	27	1518		1526	S14	E45	.722	16867	31.0	8	-F	1	C				
GRP84749	27	1600+1	1601+2	1615	S15	E02	.239	16865	27.8	15	-B				100	1.0	D
BOUL	27	1600	1603	1612	S14	E03	.226	16865	27.9	12	-B	3	C		95		D
WEND	27	1600	1602	1612	S14	E02	.223	16865	27.8	12	1B		C	1602	256	2.7	
BIGB	27	1600	1601	1618	S15	E01	.238	16865	27.7	18	-B	2	C	1601	100	1.0	
HUAN	27	1601		1611D	S15	E01	.238	16865	27.7	10D	-N	1	P	1602	80	.8	
HOLL	27	1613E	1617U	1622	S16	E03	.259	16865	27.9	9D	-F	3	C		22		
750 WEND	27	1610	1612	1614	N10	E10	.260	16866	28.4	4	-F		C	1612	62	.7	
751 BIGB	27	1741	1744	1747	S09	W90	1.000	16850	21.0	6	?B	3	C	1744	240		
			IMP.2 NO : PALE														
752 HOLL	27	1934	1934	1942	N10	E08	.239	16866	28.4	8	-F	3	C		35		
GRP84753	27	2105	2105	2123	S10	E43	.690	16867	31.1	18	-B						
HOLL	27	2105	2105	2123	S11	E45	.716	16867	31.3	18	-B	3	C		48		
HOLL	27	2105	2105	2109D	S10	E42	.677	16867	31.0	4D	-B	3	C		48		
754 HOLL	27	2138	2140	2155	S22	W19	.466	16864	26.5	17	-F	3	C		67		
755 MANI	27	2222	2227	2315	S19	W20	.445	16864	26.4	53	-F	2	P		30	.3	F
GRP84756	27	2327	2336 2403+4	0045	S11	E41	.667	16867	31.1	78	1N						HJW
PURP	27	2327	2336	0128	S13	E41	.672	16867	31.1	121	3B		C	2407	981	13.2	W
PALE	27	2334E	2407U	0043	S11	E41	.667	16867	31.1	69D	-N	3	C		168		D
VORO	27	2345	2357	0047	S06	E45	.709	16867	31.4	62	2F		C	2409	421	5.8	EHJ
MITK	27	2350	2403	0041	S11	E40	.654	16867	31.0	51	1F		P	2403	270	3.7	F
757 PEKG	28	0149	0150	0200	N10	E02	.197	16866	28.2	11	?B		P	0151	252	2.6	E
			IMP.1 NO : PURP MITK PALE														
GRP84758	28	0213+1	0216+1	0236	S23	W23	.518	16864	26.4	23	1N						
MITK	28	0213E	0217	0233D	S23	W23	.518	16864	26.4	20D	1N		C	0217	270	3.3	E
VORO	28	0214E	0216	0237	S23	W23	.518	16864	26.4	23D	2F		C	0216	681	8.1	CE
PALE	28	0214	0216	0235	S22	W19	.467	16864	26.7	21	1N	3	C		313		
MANI	28	0214	0217	0235D	S23	W24	.529	16864	26.3	21D	1F	2	P		200	2.4	F
PEKG	28	0222E	0222	0222D	S22	W23	.509	16864	26.4		2B		P	0222	694	8.4	F
GRP84759	28	0217	0219	0229	S12	E38	.632	16867	30.9	12	-N						E
PALE	28	0217	0219	0229	S10	E37	.613	16867	30.9	12	-F	3	C		40		
PEKG	28	0222E	0222	0222D	S14	E40	.664	16867	31.1		1B		P	0222	147	2.0	E
760 YUNN	28	0600	0610	0620	N34	W75	.979		22.6	20	-N		C		32		EGJ
GRP84761	28	0625E	0652+2	0711D	N33	W73	.972		22.8	46	-N						DJK
ABST	28	0625E	0654	0711D	N34	W76	.982		22.6	46D	1N		P	0654	105		DJK
KHAR	28	0645E	0652	0710D	N33	W70	.961		23.0	25D	-N		V	0652			D
762 ABST	28	0627	0629	0633	S23	W04	.375	16865	28.0	6	-F		C	0629	79	.9	D
GRP84763	28	0633	0634 0654	0708	S19	W31	.577	16864	25.9	35	-N						DJV
ABST	28	0633	0634	0708	S19	W32	.588	16864	25.9	35	-N		C	0634	79	1.0	DJV
KHAR	28	0652E	0654	0702D	S20	W30	.571	16864	26.0	10D	-F		V	0654			D

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764 KHAR	28	0645E		0658D	S12	E36	.606	16867	31.0	13D	-F	V	0650			BE
765 ABST	28	0709	0710	0711D	N08	E06	.192	16866	28.7	2D	-N	P	0710	105	1.1	DV
GRP84766	28	0735+5	0735 0744	0752	N33	W73	.972		22.8	17	-B					EGJ
CATA	28	0735	0735	0750	N32	W72	.968		22.9	15	1B	2 C	0735	68		
YUNN	28	0740	0744	0753	N35	W75	.980		22.7	13	-N	C		48		EGJ
767 YUNN	28	0851E		0900	S14	E37	.626	16867	31.1	9D	-N	P	0851	113	1.5	
	28	0954	1000	NO FLARE PATROL												
	28	1015	1044	NO FLARE PATROL												
768 YUNN	28	1107E	1107	1110D	N10	W04	.205	16866	28.2	3D	-N	P		64	.7	E
769 KHAR	28	1127E		1129D	N18	E34	.623	16869	31.0	2D	-F	P				D
	28	1130	1200	NO FLARE PATROL												
770 KHAR	28	1202E	1203	1210D	N08	W01	.160	16866	28.4	8D	-F	V	1203			E
	28	1214	1303	NO FLARE PATROL												
771 HOLL	28	1312	1318	1352	N08	W07	.200	16866	28.0	40	-B	3 C		185		D
772 HOLL	28	1324	1326	1332	S09	W41	.663	16862	25.5	8	-F	3 C		20		
773 HOLL	28	1324	1325	1330	S14	W32	.561	16863	26.2	6	-F	3 C		23		
774 HOLL	28	1326	1327	1337	S10	E33	.559	16867	31.0	11	-F	3 C		27		
GRP84775	28	1401	1419	1443	S12	E32	.552	16867	31.0	42	-N					D
HOLL	28	1401	1419	1443	S10	E33	.559	16867	31.1	42	-N	3 C		113		
KHAR	28	1422E	1422	1431D	S14	E32	.561	16867	31.0	9D	-F	P				D
GRP84776	28	1418+1	1419+0	1439	S12	W40	.658	16863	25.6	21	-B			50	.7	
BIGB	28	1418	1419	1441	S13	W40	.660	16863	25.6	23	-B	3 C	1419	50	.7	E
HOLL	28	1419	1419	1437	S09	W41	.663	16863	25.5	18	-B	3 C		53		
KHAR	28	1422E		1431D	S12	W40	.658	16863	25.6	9D	-F	P				D
777 HOLL	28	1508	1510	1529	S24	W28	.580	16864	26.5	21	-F	3 C		59		
778 HOLL	28	1528	1529	1613	N08	W06	.190	16866	28.2	45	-N	3 C		67		
779 HOLL	28	1551	1555	1558	S10	E32	.545	16867	31.1	7	-F	3 C		31		
GRP84780	28	1552+1	1558+3	1622	S20	W34	.618	16864	26.1	30	-N			50	.6	E
BIGB	28	1552	1601	1635	S19	W35	.625	16864	26.0	43	-B	3 C	1601	50	.6	
HUAN	28	1553		1622D	S20	W34	.618	16864	26.1	29D	1N	1 P	1605	160	2.1	E
HOLL	28	1553	1558	1619	S24	W28	.580	16864	26.6	26	-N	3 C		52		
GRP84781	28	1655+0	1659+1	1721	S11	E32	.548	16867	31.1	26	-B			160	1.9	
BIGB	28	1655	1659	1705D	S13	E34	.583	16867	31.3	10D	-B	2 P	1659	120	1.5	
HOLL	28	1655	1700	1721	S10	E31	.531	16867	31.0	26	1N	3 C		209		
782 HOLL	28	1655	1657	1701	S23	W32	.615	16864	26.3	6	-F	3 C		24		
GRP84783	28	1705+7	1714+8	1753	S18	W35	.619	16864	26.1	48	1B					E
HOLL	28	1705	1718	1753	S18	W35	.619	16864	26.1	48	1B	3 C		431		
HUAN	28	1712	1722	1742	S20	W35	.630	16864	26.1	30	-N	2 C	1722	120	1.6	E
BIGB	28	1714E	1714U	1805	S17	W33	.589	16864	26.2	51D	1B	2 P	1714	260	3.2	
784 HOLL	28	1719	1721	1740	N08	W07	.200	16866	28.2	21	-F	3 C		64		
785 HOLL	28	1758	1802	1808	S20	W30	.571	16864	26.5	10	-F	3 C		19		
786 HOLL	28	1813	1813	1831	S11	W41	.668	16863	25.7	18	-F	3 C		41		
787 HUAN	28	1821		1827	S23	E63	.905	16873	2.5	6	-F	1 C				

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788 HOLL	28	1823	1826	1840	N08	W10	.234	16866	28.0	17	-F	3	C		28		
789 HOLL	28	1829	1831	1839	S20	W30	.571	16864	26.5	10	-F	3	C		26		
GRP84790	28	1847+3	1853+0	2020	N08	W09	.222	16866	28.1	93	-N				190	2.0	D
HOLL	28	1847	1853	2020	N08	W08	.211	16866	28.2	93	1N	3	C		221		
RAMY	28	1848E	1853U	1916D	N09	W10	.246	16866	28.0	28D	-N	3	C		168		
BIGB	28	1848	1853	2037	N08	W08	.211	16866	28.2	109	1N	2	C	1853	210	2.2	
HUAN	28	1850		1943	N06	W10	.213	16866	28.0	53	-F	1	C				
PALE	28	1853E	1853U	1853D	N08	W09	.222	16866	28.1		-F	3	C		167		D
791 HOLL	28	1858	1904	1913	S20	W30	.571	16864	26.5	15	-N	3	C		30		
GRP84792	28	1945+0	1947+4 1957	2026	S18	W35	.619	16864	26.2	41	1B						
HOLL	28	1924	1951	2053	S18	W33	.595	16864	26.3	89	2B	3	C		522		D
HOLL	28	1924	1947	1949D	S19	W36	.636	16864	26.1	25D	1B	3	C		296		
HUAN	28	1945	1957	2021	S19	W35	.625	16864	26.2	36	-N	2	C	1957	145	2.0	E
BIGB	28	1945	1948	2026	S15	W35	.605	16864	26.2	41	1B	2	C	1948	350	4.4	
GRP84793	28	2109+0	2111	2120	S08	E24	.420	16867	30.7	11	-F				90	1.0	
HUAN	28	2109		2116	S08	E25	.436	16867	30.8	7	-F	1	C	2110	130	1.5	
BIGB	28	2109	2111	2124	S08	E23	.405	16867	30.6	15	-N	2	C	2111	60	.7	
GRP84794	28	2146+1	2150 2159	2216	S12	E28	.497	16867	31.0	30	-N						
HOLL	28	2146	2159	2214	S12	E28	.497	16867	31.0	28	-N	3	C		74		
BIGB	28	2147	2150	2217	S13	E29	.516	16867	31.1	30	-N	2	C	2150	60	.7	
GRP84795	28	2153+3	2205 2212	2235	S23	W33	.626	16864	26.4	42	1B						
HOLL	28	2153	2205	2236	S24	W33	.633	16864	26.4	43	1B	3	C		274		
BIGB	28	2156	2212	2234	S23	W33	.626	16864	26.4	38	1B	2	C	2212	260	3.2	
GRP84796	28	2259+0	2300+0	2306	S18	W38	.655	16864	26.1	7	-N				90	1.2	
BIGB	28	2259	2300	2306	S18	W38	.655	16864	26.1	7	-B	2	C	2300	70	.9	
HOLL	28	2259	2300	2306	S19	W38	.660	16864	26.1	7	-N	3	C		123		
GRP84797	28	2332+6	2344+3	0018	S16	W37	.634	16863	26.2	46	2B				410	5.3	FH
HOLL	28	2332	2344	2346D	S17	W39	.663	16863	26.1	14D	2B	3	C		468		D
MANI	28	2334	2347	0018	S16	W37	.634	16863	26.2	44	1B	2	P		350	4.6	F
BIGB	28	2338	2345	0048	S16	W36	.622	16863	26.3	70	1B	2	C	2345	210	2.7	
YUNN	28	2346	2347	0010	S17	W38	.651	16863	26.1	24	2N		C		791	15.3	FH
798 MANI	29	0140E	0140U	0145D	S23	W16	.452	16865	27.9	5D	-F	2	P		70	.8	F
799 PEKG	29	0245	0248	0248D	S18	W40	.679	16864	26.1	3D	-F		P	0248	84	1.2	E
	29	0258	0328	NO FLARE PATROL													
	29	0331	0342	NO FLARE PATROL													
GRP84800	29	0341+1	0344+4	0359	S18	W40	.679	16864	26.2	18	-B				80	1.1	
TACH	29	0341E	0348	0401	S19	W39	.672	16864	26.2	20D	-B		C	0348	53	.7	D
PEKG	29	0342	0344	0356	S17	W41	.687	16864	26.1	14	-B		C	0346	105	1.5	E
801 MITK	29	0413E	0436	0503D	N17	E25	.508	16869	31.1	50D	-N		C	0436			E
802 MITK	29	0413E	0427	0503D	S15	E18	.384	16867	30.5	50D	1F		C	0427	370	4.2	E
803 MITK	29	0421	0426	0434	S24	W37	.676	16864	26.4	13	-N		C	0426			E
804 ABST	29	0503	0513	0524	S07	W45	.710	16862	25.8	21	-N		C	0513	105	1.5	DJ
GRP84805	29	0505+3	0508+7 0549	0556	S13	W42	.685	16863	26.1	51	2N						IJUW
MANI	29	0505	0515	0534D	S09	W41	.664	16863	26.1	29D	1N	2	P		200	2.8	F
TACH	29	0506		0510D	S14	W43	.700	16863	26.0	4D	2N		C	0510	751	9.9	FIJ
PURP	29	0508	0508	0549	S12	W42	.683	16863	26.1	41	3B		C	0511	906	12.2	W
MANI	29	0508	0512	0534D	S17	W41	.687	16863	26.1	26D	1N	2	P		220	3.2	FU
ABST	29	0508	0513	0646	S10	W40	.653	16863	26.2	98	-N		C	0513	131	1.8	E
ABST	29	0510	0513	0556	S17	W44	.721	16863	25.9	46	1N		C	0513	350	5.1	EJ
YUNN	29	0547	0549	0556D	S11	W39	.643	16863	26.3	9D	1N		C		241	2.3	E

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GRP84806	29	0543	0545+5	0606	N10	W15	.319	16866	28.1	23	1N			230	2.4	E
ABST	29	0543	0550	0616	N10	W14	.305	16866	28.2	33	1N	C	0550	262	2.8	E
YUNN	29	0545E	0545	0555	N11	W16	.341	16866	28.0	10D	1N	C		209	2.3	E
807 ABST	29	0611	0612	0638	S16	W40	.671	16863	26.3	27	-N	C	0612	87	1.2	DV
808 ABST	29	0655	0656	0705	S19	W42	.706	16864	26.1	10	?N	C	0656	148	2.1	EV
			IMP.1 NO : PURP YUNN													
809 ABST	29	0700	0708	0740	S24	W20	.500	16865	27.8	40	?N	C	0708	175	2.1	FJ
			IMP.1 NO : PURP YUNN													
GRP84810	29	0725	0727+2	0749	S23	W39	.691	16864	26.4	24	-N			130	1.8	EJ
ABST	29	0725	0727	0749	S24	W39	.697	16864	26.4	24	1N	C	0727	175	2.5	EJ
YUNN	29	0727E		0733	S23	W39	.691	16864	26.4	6D	-N	P	0729	113	1.6	E
ATHN	29	0727E	0729	0752	S18	W37	.644	16864	26.5	25D	-N	2 V	0729	95	1.3	
811 ISTA	29	0753		0757	S19	W44	.728	16864	26.0	4	-N					D
GRP84812	29	0755+1	0757+3 0806	0818	N12	W18	.377	16866	28.0	23	-N					EJ
ABST	29	0755	0758	0811	N11	W19	.381	16866	27.9	16	1N	C	0758	262	2.9	EJ
MANI	29	0755	0757	0815	N10	W21	.401	16866	27.8	20	-F	2 P		60	.7	
ISTA	29	0756	0800	0808	N12	W18	.377	16866	28.0	12	-B					E
ABST	29	0756	0806	0825D	N14	W14	.350	16866	28.3	29D	-N	P	0806	87	1.0	D
MANI	29	0756	0800	0834	N16	W14	.374	16866	28.3	38	-F	2 P		25	.3	
YUNN	29	0759E		0759D	N11	W18	.368	16866	28.0		1N	P	0759	241	2.8	E
813 ABST	29	0817	0824	0825D	N07	W09	.209	16866	28.7	8D	-F	P	0824	87	.9	E
GRP84814	29	0836E	0842	0901D	N07	W10	.222	16866	28.6	25	-F			40	.4	DJ
ABST	29	0836E	0842	0856D	N02	W10	.181	16866	28.6	20D	-F	P	0842	87	.9	DJ
HTPR	29	0837E		0842D	N07	W15	.292	16866	28.2	5D	-N	C	0838	30	.3	
WEND	29	0845E		0901D	N08	W09	.221	16866	28.7	16D	-F	C	0845	38	.4	
815 ABST	29	0858E	0858	0905	S19	W44	.728	16864	26.1	7D	-F	P	0858	87	1.3	D
816 ABST	29	1002	1003	1005	S19	W44	.728	16864	26.1	3	-F	C	1003	61	.9	DJ
GRP84817	29	1030E		1042D	S18	W43	.713	16864	26.2	12	-F					
KHAR	29	1030E		1042D	S19	W41	.695	16864	26.4	12D	-F	V	1030			
KHAR	29	1030E		1040D	S18	W45	.735	16864	26.1	10D	-F	V	1030			
818 KHAR	29	1030E		1046D	S11	W50	.773	16863	25.7	16D	-N	V	1030			
GRP84819	29	1043E	1048+7	1107	S24	W21	.510	16865	27.9	24	-N					E
KHAR	29	1043E	1052	1114D	S24	W23	.530	16865	27.7	31D	-F	V	1052			
YUNN	29	1048E	1048	1100	S23	W21	.499	16865	27.9	12D	1N	P		209	2.5	E
CATA	29	1050E	1055	1055D	S24	W21	.510	16865	27.9	5D	-N	2 P	1055	112	1.3	
820 KHAR	29	1112E	1113	1123D	N08	W18	.344	16866	28.1	11D	-F	V	1113			E
	29	1124	1144	NO FLARE PATROL												
821 HTPR	29	1150	1153	1200	S14	E22	.428	16867	31.1	10	-F	C	1153	40	.4	EI
822 HOLL	29	1303	1306	1321	S07	W55	.821	16862	25.4	18	-F	2 C		29		
823 HOLL	29	1310	1315	1323	S23	W41	.712	16864	26.5	13	-F	2 C		68		
GRP84824	29	1327+3	1328+4	1339	S20	W46	.752	16864	26.1	12	-F			20	.3	D
HTPR	29	1327	1328	1345	S19	W48	.770	16864	26.0	18	-F	C	1328	20	.3	
HUAN	29	1329	1332	1334	S20	W46	.752	16864	26.1	5	-F	1 C	1332	20	.3	D
HOLL	29	1330	1331	1339	S23	W41	.712	16864	26.5	9	-F	2 C		28		
GRP84825	29	1406+1	1408	1414	N06	W12	.240	16866	28.7	8	-F					D
HUAN	29	1406		1411	N06	W12	.240	16866	28.7	5	-F	1 C				D
HOLL	29	1407	1408	1417	N06	W12	.240	16866	28.7	10	-N	3 C		31		
	29	1557	1600	NO FLARE PATROL												

H - ALPHA SOLAR FLARES

MAY 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
826 HOLL	29	2130	2132	2145	S24	W26	.560	16865	27.9	15	-F	3 C		44		
827 HOLL	30	0020	0021	0037	S14	E15	.338	16867	31.1	17	-N	3 C		36		
828 MANI	30	0027	0031	0041	S18	W48	.767	16864	26.4	14	-F	2 P		40	.6	
829 ABST	30	0720	0729	0736	S18	W57	.852	16864	26.0	16	-F	C	0729	87	1.7	DJ
830 KHAR	30	0945E		0954D	S10	W01	.159	16867	30.3	9D	-F	P	0945			D
831 KHAR	30	1025E	1027	1036D	S20	W58	.864	16864	26.1	11D	-F	P	1027			D
GRP84832	30	1027E		1038D	S09	W52	.792	16863	26.5	11	-F					
KHAR	30	1027E		1035D	S11	W52	.794	16863	26.5	8D	-F	P	1032			D
KHAR	30	1030E		1038D	S08	W52	.791	16863	26.5	8D	-F	P	1032			D
GRP84833	30	1040+4	1046+1 1056+4	1154	S18	W55	.835	16864	26.3	74	1N					EIK
HTPR	30	1040	1058	1130	S18	W56	.844	16864	26.2	50	1N	C				
HTPR	30	1040	1047	1130	S18	W56	.844	16864	26.2	50	1N	C	1058	150	2.6	EI
KHAR	30	1042E	1100	1203D	S18	W56	.844	16864	26.2	81D	2F	P	1100	450	8.3	EK
YUNN	30	1044	1045	1045D	S18	W54	.826	16864	26.4	1D	1N	P		129	2.4	E
RAMY	30	1046E	1056	1137	S19	W54	.828	16864	26.4	51D	-N	3 C		74		
RAMY	30	1046E	1046	1154	S14	W52	.799	16864	26.5	68D	-F	3 C		47		
GRP84834	30	1249+2	1304+6	1328	S24	W55	.848	16864	26.4	39	-F			50	.9	E
HOLL	30	1239	1308	1327	S26	W54	.845	16864	26.5	48	-F	3 C		54		
RAMY	30	1249	1304	1328	S24	W53	.831	16864	26.6	39	-N	3 C		42		
HTPR	30	1249	1304	1330	S24	W56	.856	16864	26.3	41	-N	C	1304	50	.9	E
KANZ	30	1251	1310	1322D	S25	W57	.866	16864	26.3	31D	-F	2				
835 RAMY	30	1601	1611	1647	S08	W70	.940	16862	25.4	46	-F	3 C		12		
836 HTPR	30	1724	1726	1744	N12	W27	.496	16866	28.7	20	-F	C	1726	30	.3	E
837 HOLL	30	2031	2033	2045	S30	E26	.618	16874	1.8	14	-N	3 C		73		
GRP84838	30	2051+1	2052+1	2105	N06	W29	.497	16866	28.7	14	-B			100	1.2	D
BIGB	30	2051	2052	2106	N07	W29	.500	16866	28.7	15	-B	3 C	2052	80	.9	
HOLL	30	2052	2053	2104	N06	W30	.511	16866	28.6	12	-B	3 C		129		D
839 VORO	30	2237	2239	2252	S06	W04	.112	16867	30.6	15	-N	C	2239	116	1.2	EH
GRP84840	31	0613+0	0614+1	0626	S13	W69	.936	16863	26.1	13	-N			80		DJ
CULG	31	0613	0614U	0615D	S13	W67	.923	16863	26.2	2D	-N	P	0614	60		
ABST	31	0613	0615	0626	S14	W71	.948	16863	25.9	13	1N	C	0615	96		DJ
841 ABST	31	0632	0633	0642	S12	W03	.201	16867	31.0	10	-F	C	0633	175	1.8	EJV
GRP84842	31	0659	0703 0716	0732	S15	W03	.250	16867	31.1	33	-F					FJ
ABST	31	0659	0703	0717	S17	W04	.287	16867	31.0	18	-F	C	0703	87	.9	DJ
ABST	31	0707	0716	0732	S14	W03	.234	16867	31.1	25	-F	C	0716	87	.9	FJ
GRP84843	31	0743+1	0745+2	0759	S13	W03	.217	16867	31.1	16	-N			100	1.0	EJ
KHAR	31	0730E		0757D	S13	W12	.293	16867	30.4	27D	-F	V	0731			E
HTPR	31	0743		0752D	S11	W03	.184	16867	31.1	9D	-F	C	0750	50	.5	E
MONT	31	0744	0746	0755	S13	W04	.222	16867	31.0	11	-N	C	0746	100		
ATHN	31	0744E	0745	0808	S13	W03	.217	16867	31.1	24D	-B	3 V	0745	111	1.2	
ISTA	31	0745E		0751	S12	W03	.201	16867	31.1	6D	-F					BE
ABST	31	0746E	0747	0807	S13	W04	.222	16867	31.0	21D	1N	P	0747	271	2.8	EJ
KHAR	31	0746E	0747	0801D	S12	W05	.212	16867	30.9	15D	-F	V	0746			E
GRP84844	31	0847+1	0847+4	0918	S31	E22	.597	16874	2.0	31	-F					DJ
KHAR	31	0847E	0847	0903D	S31	E23	.605	16874	2.1	16D	-N	P	0847	40	.5	D
ABST	31	0848	0851	0918	S32	E21	.601	16874	1.9	30	-F	C	0851	96	1.2	DJ
845 KHAR	31	0922E	0928	0951D	S14	W72	.953	16863	26.0	29D	-F	P				E
846 KHAR	31	0959E		1032D	S12	E69	.935	16881	5.6	33D	-F	P				

H - ALPHA S O L A R F L A R E S

MAY 1980

	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
847	KHAR	31	1048E		1101D	S12	E69	.935	16881	5.6	13D	-F	P	1048	50	1.4	
848	KHAR	31	1138E		1210D	S32	E21	.601	16874	2.1	32D	-N	P	1158	70	.9	E
849	CATA	31	1150	1150	1150D	S16	W06	.281	16867	31.0		-N 2	P	1150	84	.9	
850	HOLL	31	1551	1552	1559	S14	W08	.265	16867	31.1	8	-N 3	C		37		
851	BIGB	31	1835	1902	2059	S25	E32	.633	16873	3.2	144	-F 2	C	1902	150	1.8	
852	HOLL	31	2024	2028	2031	S14	W16	.352	16867	30.7	7	-F 3	C		45		
853	CULG	31	2200	2204	2223	S24	E23	.532	16873	2.6	23	-N	C	2204	120	1.4	H
854	CULG	31	2222	2226	2234	S19	W71	.950	16864	26.6	12	-F	C	2226	40		
855	CULG	31	2315	2323	2326	S11	W17	.337	16867	30.7	11	-F	C	2323	30	.3	K

"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by high-speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the H and K lines of CaII.
P = Flare shows helium D3 in emission.
Q = Flare shows Balmer continuum in emission.
R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
S = Brightness follows disappearance of filament in same position.
T = Region active all day.
U = Two bright branches, parallel or converging.
V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide H-alpha line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

The 4-digit number appearing under "Remarks" denotes the calcium plage region number assigned by the Space Environment Services Center in Boulder, Colorado.

D A I L Y F L A R E I N D I C E S
(Includes all Flares)

May 1980

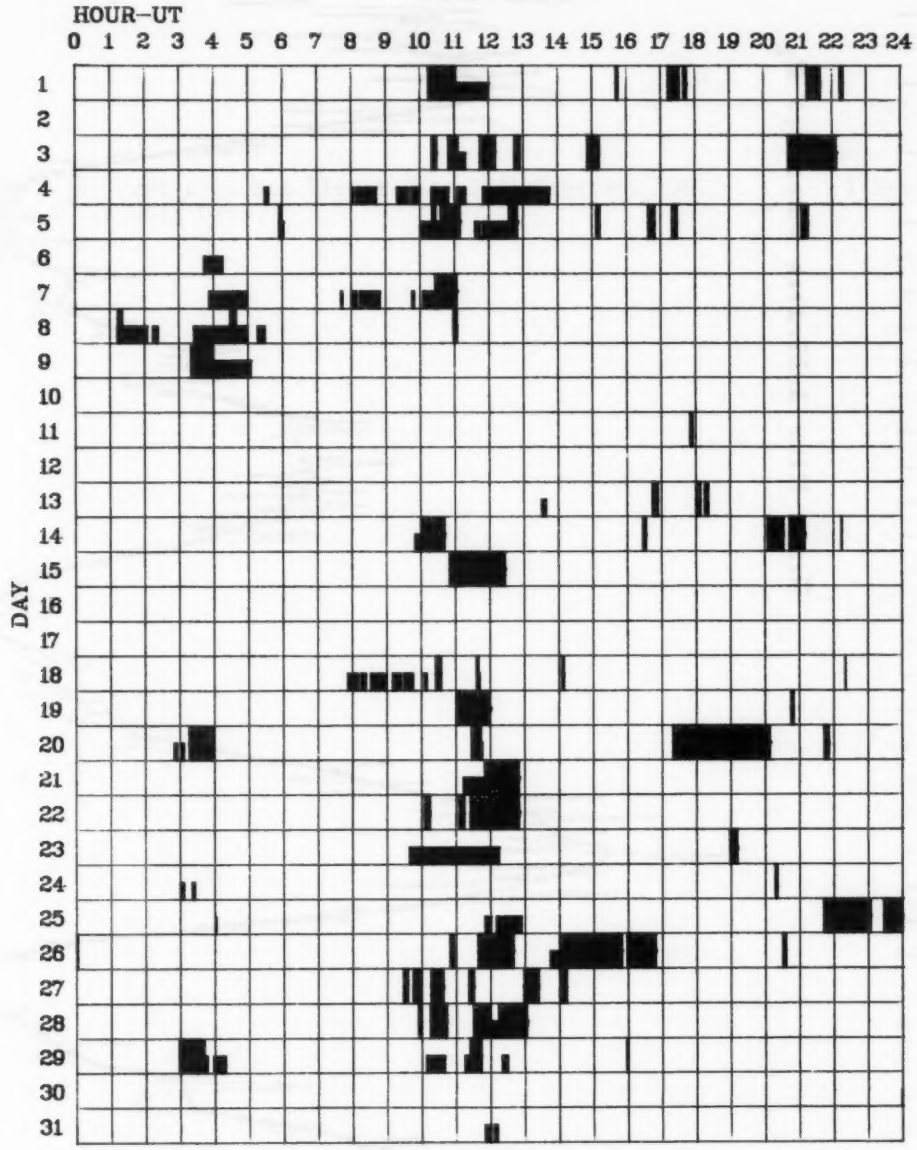
Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed
01	118.36	21.3	11	125.61	23.9	21	352.03	23.0
02	134.10	24.0	12	93.73	24.0	22	593.92	22.2
03	112.36	21.2	13	54.78	23.6	23	81.45	23.8
04	123.14	24.0	14	75.57	22.3	24	219.29	23.9
05	167.08	22.3	15	129.78	22.4	25	91.39	22.0
06	150.42	24.0	16	114.74	24.0	26	100.37	20.1
07	108.93	23.4	17	456.53	24.0	27	106.24	22.5
08	95.11	23.6	18	219.45	23.7	28	357.42	22.1
09	125.29	23.4	19	142.23	22.9	29	259.56	22.9
10	188.26	24.0	20	19.45	20.2	30	45.86	24.0
						31	57.21	24.0

*When no flare index is given, it is zero for that day.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

MAY 1980

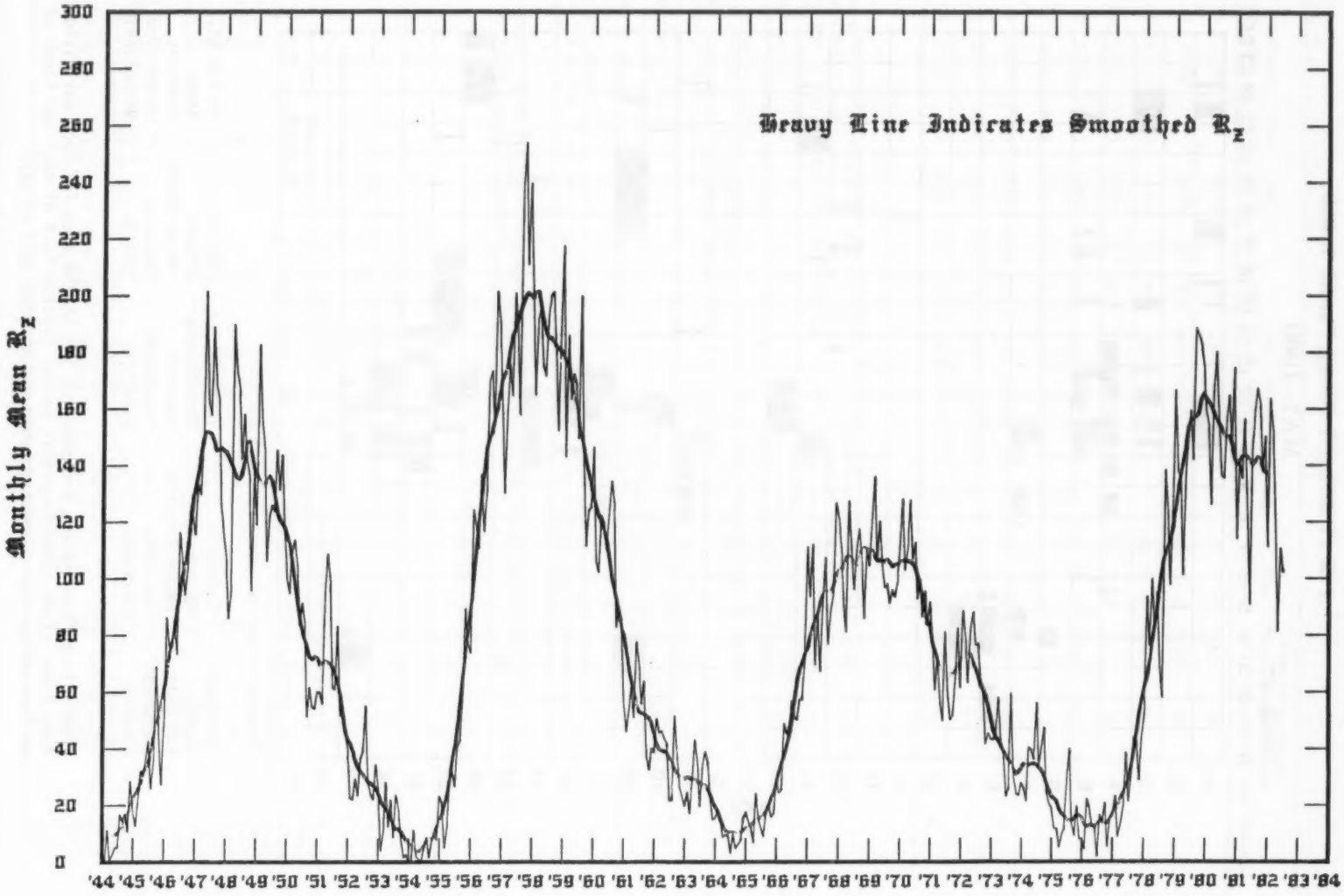


Observatories included in total patrol:

Abastumani	Culgoora	Istanbul	Manila	Purple Mt.
Athens	Georgiana	Kanzelhoehe	Mitaka	Ramey
Big Bear	Haute Provence	Kharkov	Monte Mario	Tashkent
Bucharest	Holloman	Kodaikanal	Palehua	Voroshilov
Catania	Huancayo	Lvov	Peking	Wendelstein
				Yunnan

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

Monthly Mean Zürich Sunspot Numbers
January 1944 – July 1982



MISCELLANEOUS DATA

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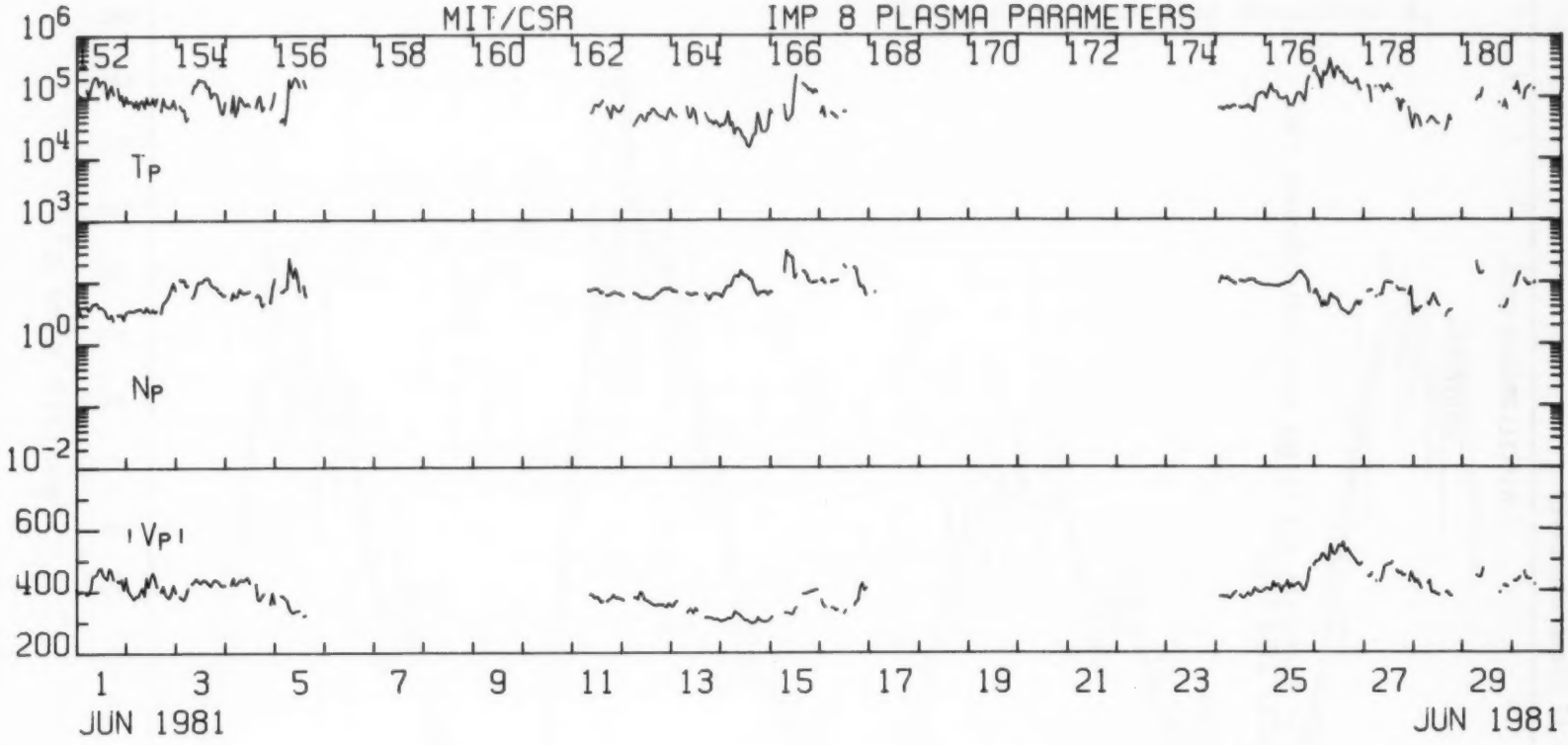
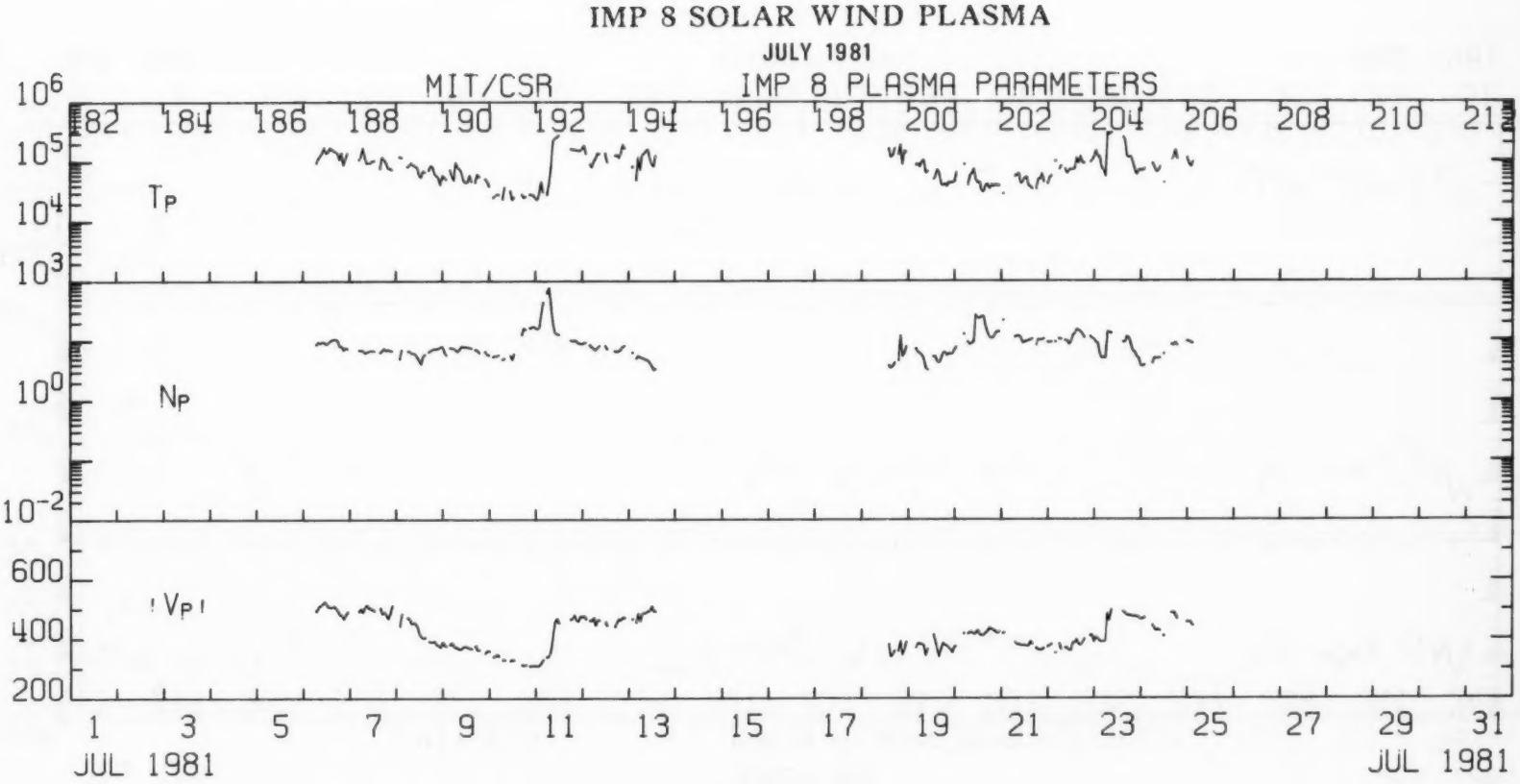
Energetic Solar Particles and Plasma June 1981-February 1982 IMP 8 Solar Wind Data	118-126

IMP 8 SOLAR WIND PLASMA

JUNE 1981

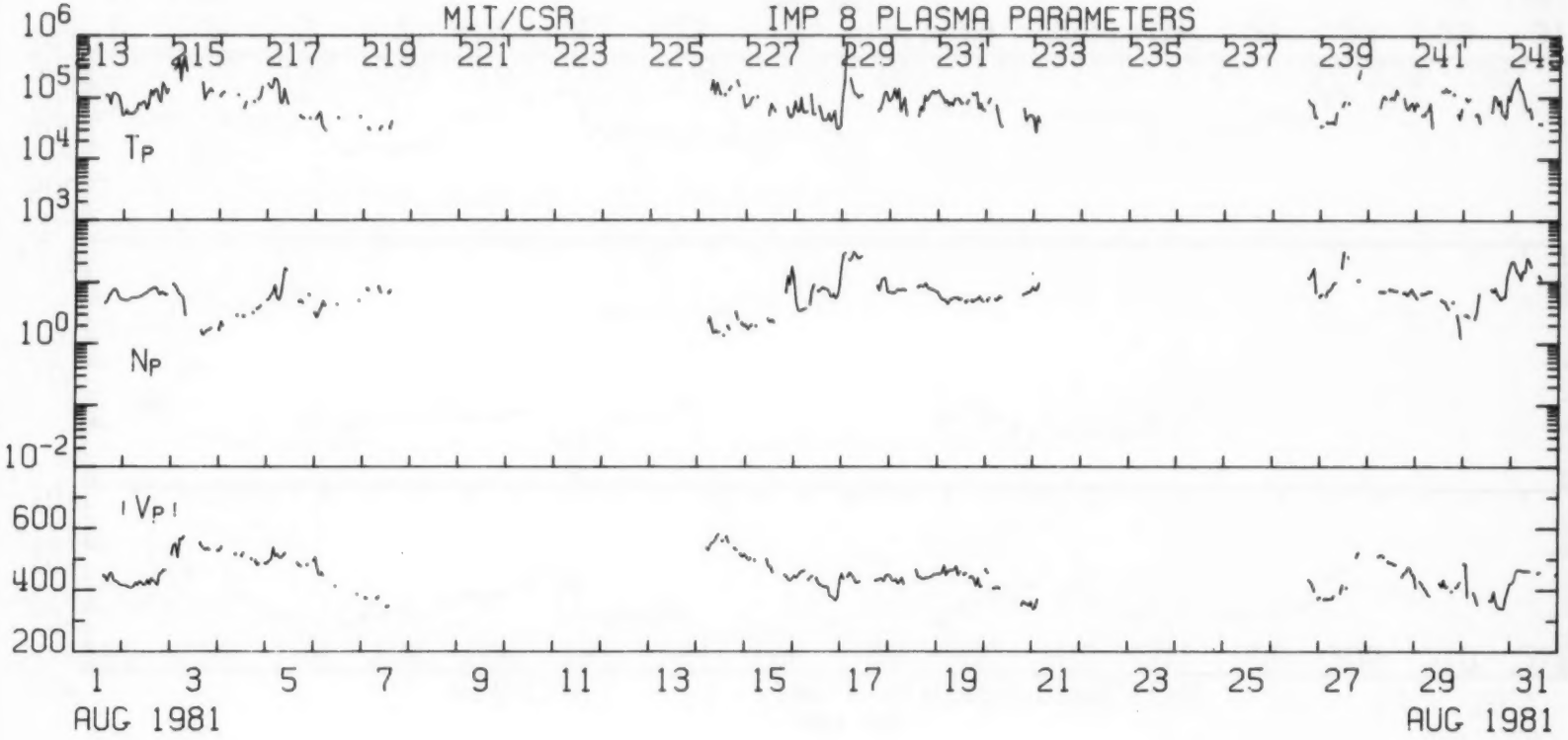




119
Misc
Jul 81

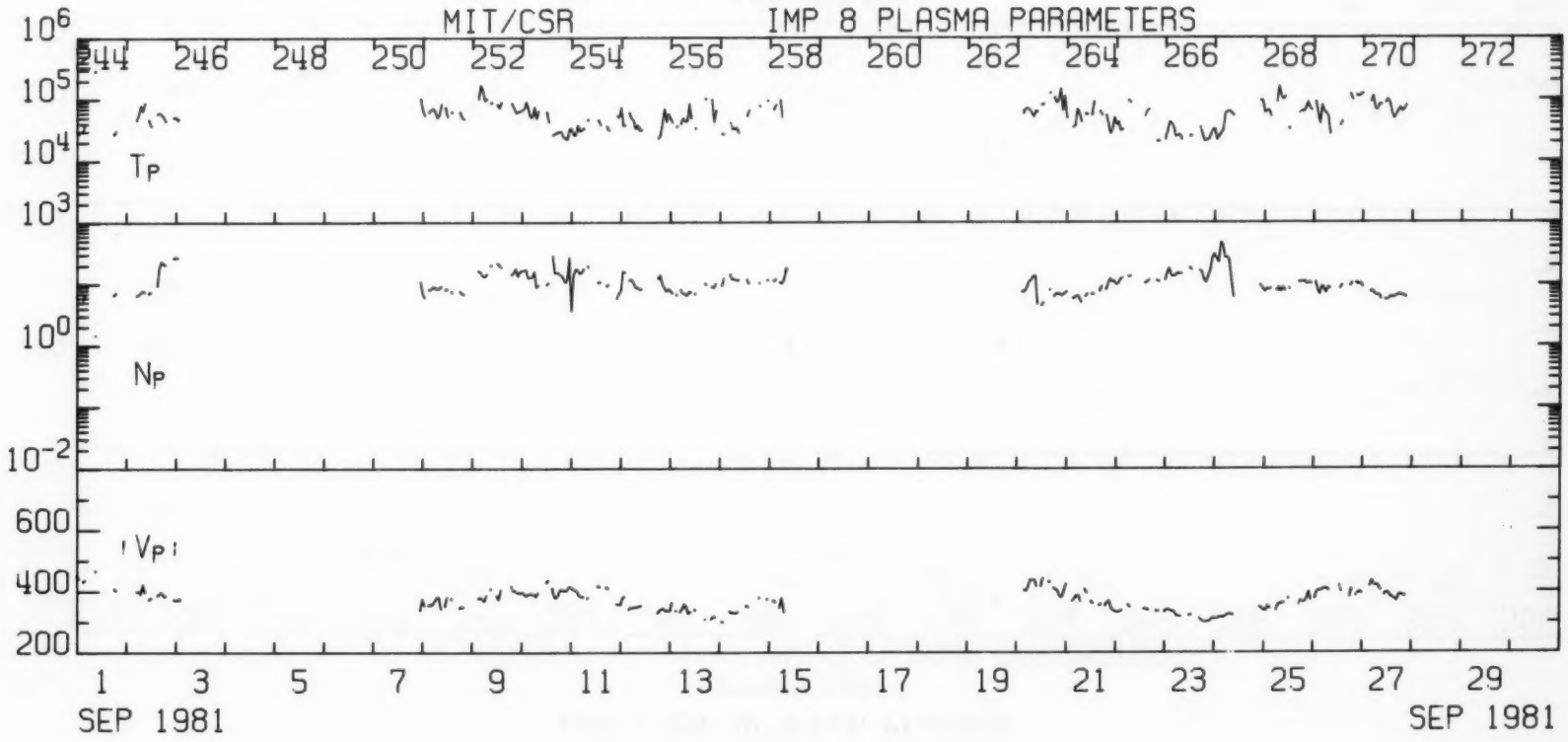
IMP 8 SOLAR WIND PLASMA

AUGUST 1981



IMP 8 SOLAR WIND PLASMA

SEPTEMBER 1981



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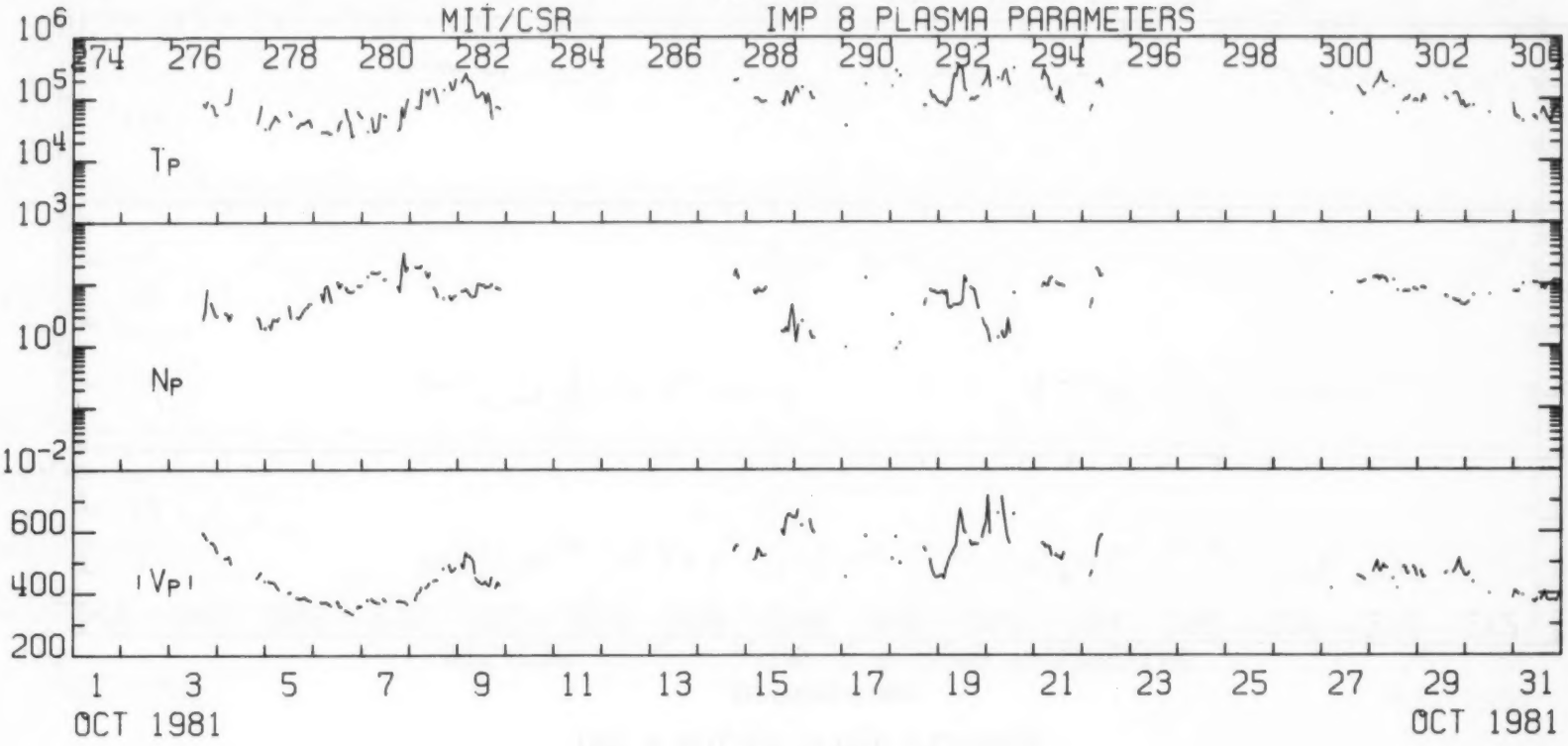
Misc
Sep 81

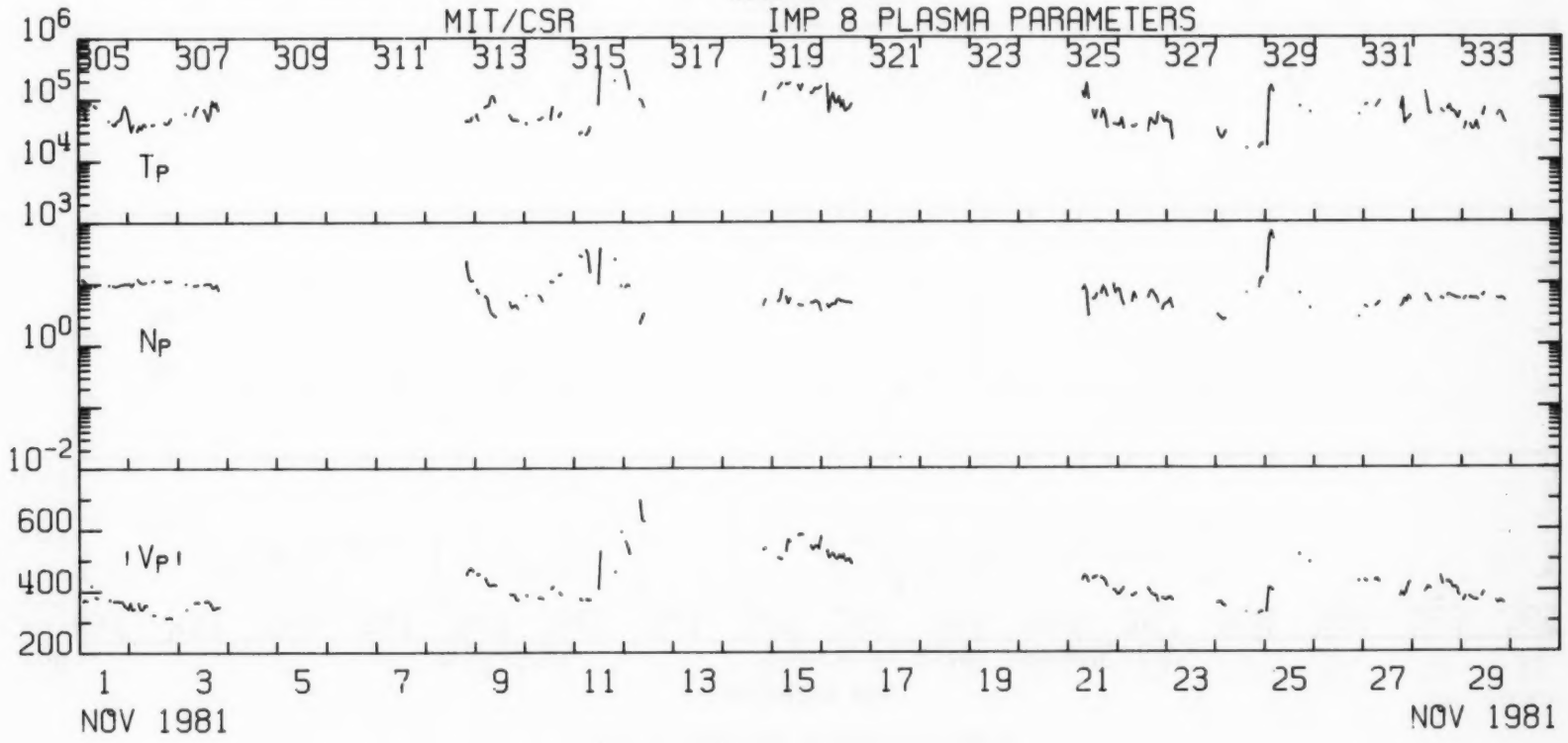
IMP 8 SOLAR WIND PLASMA

OCTOBER 1981



IMP 8 SOLAR WIND PLASMA

NOVEMBER 1981



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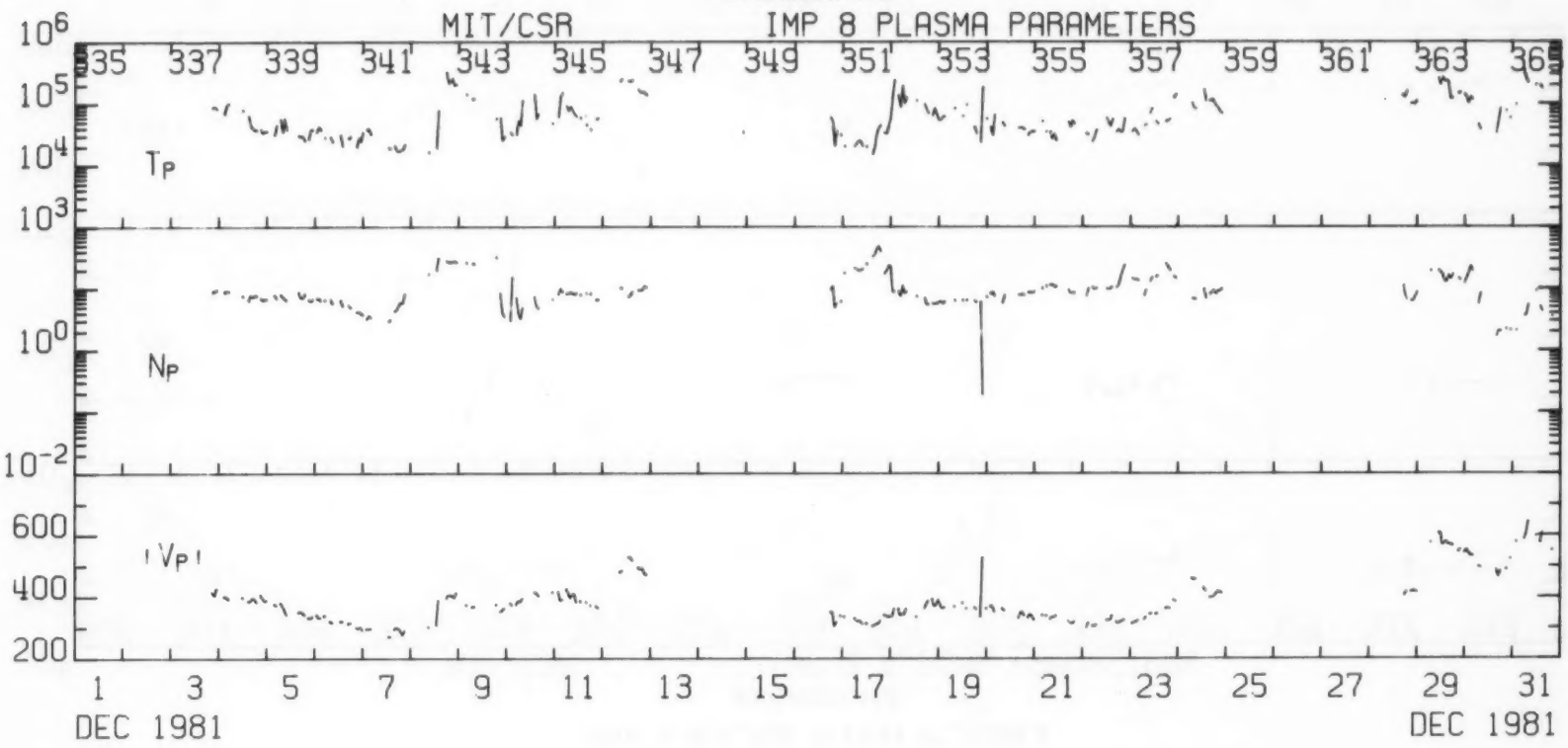
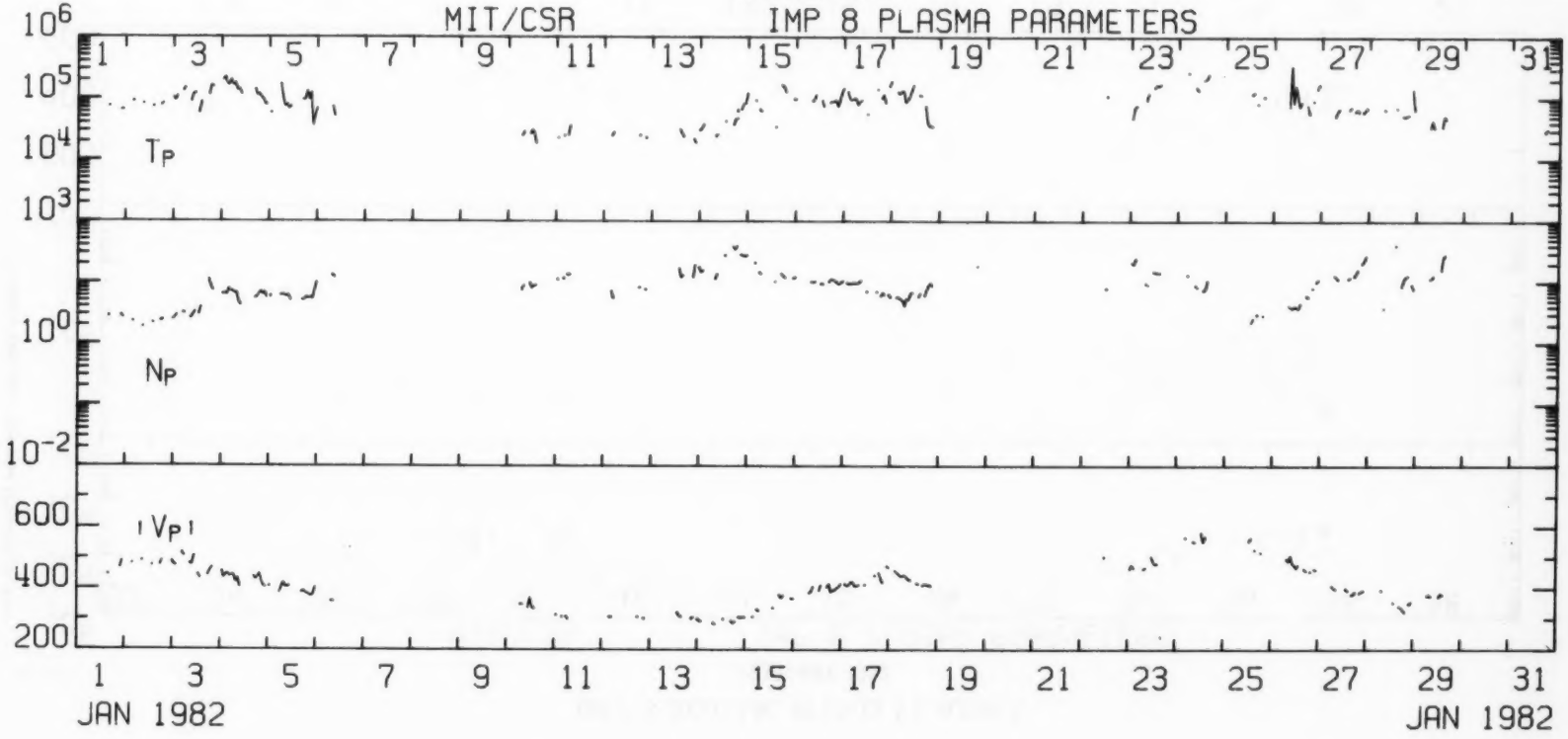
Misc
Nov 81

IMP 8 SOLAR WIND PLASMA



IMP 8 SOLAR WIND PLASMA

JANUARY 1982



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Misc
Jan 82

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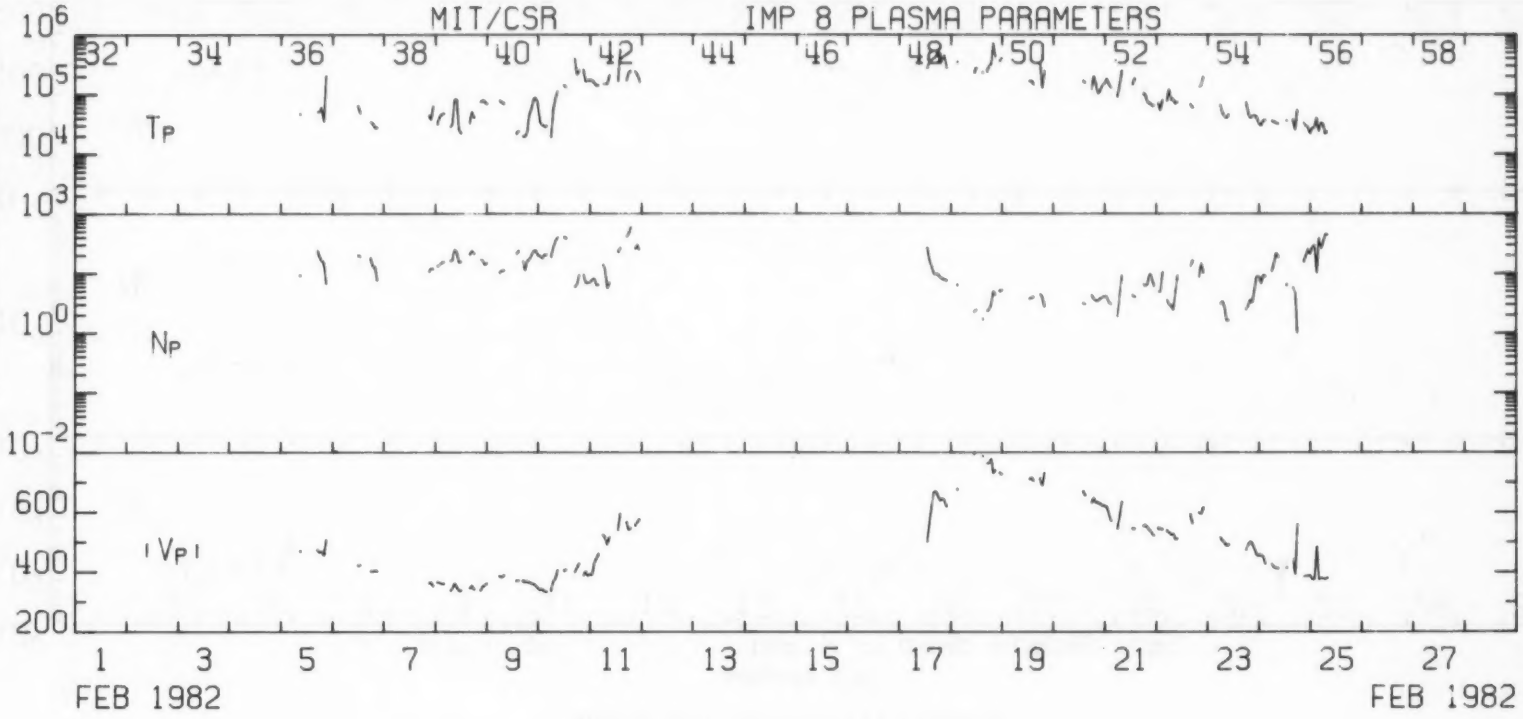
Misc
Feb 82

IMP 8 SOLAR WIND PLASMA

FEBRUARY 1982



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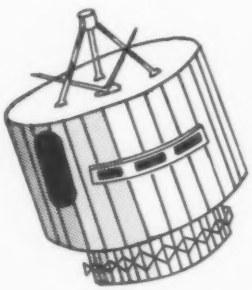
DATA ANNOUNCEMENT

SPACE ENVIRONMENT DATA from the SMS & GOES SATELLITES

The Space Environment Monitor instrument package on-board all SMS/GOES satellites has provided magnetometer, energetic particle, and soft X-ray data continuously since July 1974. Two SMS/GOES satellites operate simultaneously in the Earth's equatorial plane. They travel in geosynchronous orbit (6.67 Earth radii) and are generally located at 75° and 135° west longitude. This trajectory allows the detectors an unobstructed view of the Sun for all but the few dozen hours per year that the Earth eclipses the Sun. The time resolution for all three sensors is approximately 3 seconds, which permits one month's data from each sensor to be stored on a single 9-track, 1600-BPI, binary tape. Plots are available on microfilm.

MAGNETOMETER

A twin fluxgate spinning sensor allows representation of the Earth's magnetic field in three mutually perpendicular components: H_p, H_e and H_n. H_p is parallel to the satellite spin axis, which is itself perpendicular to the satellite's orbital plane. H_e lies parallel to the satellite-Earth center line and points earthward. H_n is perpendicular to both H_p and H_e, and points westward. Field strength changes as small as 0.2 gamma can be measured.



PARTICLE DETECTOR

Solid state detectors with pulse height discrimination measure protons from 0.8 to 500 MeV, alpha particles from 4.0 to 392 MeV, and electrons with kinetic energies greater than or equal to 2.0 MeV. Since solar protons and alpha particles in these energy ranges accelerated in solar flares can reach the vicinity of Earth, they pose a hazard to manned space flight and to high-altitude aircraft. They can as well significantly affect the high-latitude ionosphere.

X-RAY DETECTOR

Ion chamber detectors provide whole Sun fluxes for the 0.5-to-4 and 1-to-8 Angstrom X-ray wavelength bands. These observations furnish a sensitive means of detecting the start of solar flares and thereby changes in the dayside ionosphere.

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